ACKNOWLEDGEMENTS

It is with great pleasure that I acknowledge my profound gratitude to my research supervisor, Prof. M. Periasamy, for suggesting research problem and for constantly guiding and encouraging me throughout the course of this work.

I am grateful to Prof. G. Mehta, Prof. R. Jagannathan, Prof. K. D. Sen and Prof. P. S. Zacharias, Deans, School of Chemistry during my stay here, for providing all facilities to carry out my work. I take this opportunity to thank all the other faculty members for their inspiring lectures which prompted me to take this profession.

Thanks are also due to Dr. A. V. Rama Rao and Dr. A. K. Vairamani IICT, Hyderabad, for providing the Mass spectra of some of the compounds.

I would like to extend my heartfelt thanks to Dr. A. Devasagayaraj, Mrs Y. Suseela and my other colleagues Dr. C. Narayana, Dr. N. Satyanarayana, Dr. S. Achyuta Rao, Messers Ch. Kishan Reddy, M. Rama Reddy, A. S. Bhanu Prasad, M. L. N. Rao and U. Radhakrishnan during course of my work.

It is a pleasure to thank my friends S. Harikrishna Reddy, C. Prabhakar, K. Rajender Reddy, B. B. V. Soma Sekhar, K. Venkateswra Rao, Dr. K. V. Radhakishan, Dr. N. Arulsamy, B. Jagadeesh, P. Rama Krishna, P. Bheema Rao, N. Sambasiva Rao, R. Murali, Ch. Rama Kishan Rao, P. R. Srikantha Sharma, P. V. R. Acharyulu, M. Prem Kumar, P.
Praveen, K. Vinoda Kumari, B. Shyamala, S. Geetha, and all my other friends, who made my stay here an enjoyable and memorable one.

All the non-teaching staff of the School have been extremely helpful, I thank them all. Messers S. Satyanarayana, V. Bhaskar Rao, K. R. B. V. Prasad, Sathya Bhaskar and Mrs. Vijaya Lakshmi are a few to mention.

I wish to express my profound gratitude to my parents, brother, sister and other relatives for their constant encouragement and support throughout my academic career.

I wish to extend my sincere thanks to the University authorities for providing all the necessary facilities for this work.

Financial assistance from the CSIR is gratefully acknowledged.

J. V. BHASKAR KANTH