ACKNOWLEDGEMENT

The research work described in this thesis has been carried out in the Department of Chemistry, North-Eastern Hill University, Shillong under the supervision of Professor H. Junjappa. I sincerely thank him for his invaluable guidance and the wealth of suggestions rendered to me. I am also equally thankful to Professor (Mrs.) H. Ila for her wise counsel.

I am grateful to the Directors and Technicians of the Regional Sophisticated Instrumentation Centres at Central Drug Research Institute, Lucknow and North-Eastern Hill University, Shillong for providing spectral and analytical data of the compounds described in the thesis. Also, quite a few spectral and analytical data were obtained from Dr. A. Rahman of Medizinschen University, Lubeck, West Germany and Dr. S. Apparao, Department of Chemistry and Biochemistry, Utah State University, U.S.A. for which I remain grateful.

I am also extremely grateful to my Colleagues, Dr. S. Apparao, Dr. B. Myrboh, Dr. S.S. Bhattacharjee, Dr. A. Rahman, Dr. J.N. Vishwakarma, Dr. G. Singh, Dr. L.W. Singh, Dr. Apurba Dutta, Dr. C.V. Asokan, Mr. R.T. Chakrasali, Mr. A.K. Gupta, Mr. A. Thomas, Mr. M.P. Balu, Mr. Arun K. Gupta, Mr. B. Deb, Mr. Srinivasa Rao, Mr. Chandrasekharan, Mr. B. Patro, Mr. L.N. Bhat, Mr. J. Satyanarayana, Mr. K. Malliaiah, Mr. K.R. Reddy, Mr. Mofizuddin, Miss D. Pooranchand, Miss S. Bhattacharjee and Mrs. M. Chakraborty for their co-operation. I am thankful to Mrs. Rajamma K. for meticulous typing of the manuscript in a very short time.
I express my sincere gratitude to the Principal and my Colleagues of the St. Edmund's College, Shillong.

Finally, I acknowledge the debt that I owe to my parents and other members of my family for the inspiration and support they have rendered in various ways.

Makhan Lal Purkayastha