ACKNOWLEDGEMENTS

First and foremost, I wish to express my utmost gratitude and heartfelt appreciation to my dedicated principal supervisor, Dr. D. Ramachandran, Assistant Professor of Chemistry, A.N.U. Dr. M. R. A. ROW CAMPUS, Nuzvid for his inspiring guidance, invaluable advice and encouragement throughout my entire research program. I am most grateful for all the scientific knowledge I have gained from him and all the fruitful discussions we have had.

I am also taking this opportunity to express my sincere thanks to Prof. C. Rambabu, Head, Dept. of Chemistry & Special Officer, A.N.U. Dr. M. R. A. ROW CAMPUS, Nuzvid his strong technical support and assistance during my research study.

I am thankful to Prof. G. L. Datta, Vice-Chancellor, K.L. University, Vijayawada, and Prof. K. Rama Krishna, Prof. K. Rajasekhar Rao and the faculty members of the Department of Chemistry, K.L. University for the moral support and constant encouragement extended throughout the investigation. How can I express my thanks to, Prof. Vijaya Saradhi S!... It is so difficult to quantify your help during the last four years. Without your assistance, my thesis would never have been finished in time. Also without your help and patience, I could never have operated on Drugs and run HPLC system. I was so encouraged by our discussions.
I was fortunate enough to avail the ungrudging help and assistance from all our laboratory and non-teaching staff, Dept. of Chemistry, A.N.U. Dr. M.R.A. ROW CAMPUS, Nuzvid particularly.

The inspiration, help and suggestions received from Prof. Srihari Prasad, Prof. V. Vasantha Kumar, Prof. N. Venkatram and all other faculty members are beyond evaluation.

No words would be enough to express my feelings towards Dr. K.R.S. Prasad, Associate Professor, K L University, who gave me motherly affection at times of my difficult stages.

I wholeheartedly thank Prof. A. Srinivasa Rao, Department of Physics, for his constant encouragement, valuable help and suggestions during my research work.

I would like to thank my research friend, Dr. V. Srinivasa Rao who created a jovial atmosphere and also for giving valuable suggestions at all stages of my work. I also thank my ex-labmates, Dr. M. Srinivasa Rao and Dr. Megha, for their constant encouragement and support. I do thank my lab mates, Mrs. A. Lakshmi Lavanya, Mr. V. S. R. Krishna, Mrs. P. Geetha Swarupa, Ms. Prasanthi, Ms. Rekha, Mrs. S. Felice and Mr. Eswar for their encouragement.

I do thank my friends Dr. P. V. Chalapathi, Dr. Srinivasa Reddy, Dr. Singh, Dr. Kondragunta, Dr. Jayasimhadri, Mr. Srinivasulu, Mr. Srinivasa Prasad and Mr. M. Venkateswarlu also the fellow
researchers of other departments of K L University, for their constant support and encouragement.

I am tempted to individually thank all of my friends which, from my childhood until graduate school, have joined me in the discovery of what is life about and how to make the best of it. However, because the list might be too long and by fear of leaving someone out, I will simply say thank you very much to you all.

My deepest gratitude goes to my parents for their selfless sacrifice, continuous encouragement, support and unceasing prayers which have enabled me to reach the present position in life.

I express special thanks to my beloved wife Mrs. Rupa Vani and little daughter Sri Laasya for her patience, constant encouragement, unconditional love as well as financial and moral support during my research.

I am also taking this opportunity to express my sincere thanks to Acharya Nagarjuna University authorities, Guntur for giving me the opportunity to do research.

At last, I thank the omnipotent god for showering blessings to me.

Anyone missed in this acknowledgement are also thanked.