Acknowledgements

As much as my doctoral research work has been a personal pursuit, the story would not have been completed without the efforts & help from my co-workers, friends and well wishers who have been an integral part of this journey for the last few years. My heartfelt thanks to all the people mentioned here and others whose names I might have omitted unwittingly.

It gives me immense pleasure and pride to express my gratitude and respect for my teacher and guide Prof. C. Venkata Rao, and the HOD, Department of Chemistry, for the continuous support of my Ph.D., study and research, for his patience, motivation, enthusiasm, and immense knowledge. His guidance helped me in all the time of and writing of my thesis, research Sri Venkateswara University, Tirupati,, for his expert and inspiring guidance throughout the period of my work. I am indebted to him for enlightening me on the finer skills of dealing with synthetic problems.

It is my pleasure to express my profound gratitude to Dr. D. K. Mohapatra, Scientist IICT, Hyderabad, for his encouragement and fruitful discussions throughout the course of this work. I also express my heartiest gratitude to Dr. B. V. Subba Reddy, IICT, Hyderabad, for his support and encouragement throughout the period of my research work.

It gives me an immense pleasure to acknowledge Prof. K. Seshiaiah, BOS Chairperson, and other faculty members of Chemistry Department, Sri Venkateswara University for giving opportunity of my Ph. D programme in this university.

It is my pleasant duty to express sincere thanks to Prof. Prof. A. Krishnaiah, Prof. P. Venkateswarlu, former Heads of the Chemistry Dept., Prof. N. Venkata Subba Naidu, for their over whelming support.

I express my sincere gratitude to my teachers Dr. Subba Lakshmi, Dr. Ragnath Pillai, Prof. P.S.N Reddy, Prof. Srihari, Dr. JayPrakash Rao, Dr. B. V. Ramana, Dr. S. Chandrasekhar Reddy, A. Govindaiah, D. Bhaskar reddy who have inspired me without which I would not have to come to this stage. It is also an appropriate time to remember all my teachers and professors who at various stages of my educational carrier encouraged me to reach this level and it all is the fruit of their teaching and blessings.
I also express my heartfelt thanks to my seniors to Dr. V. Madhava Rao, Dr. G. L. V. Damu, Dr. M. Suresh, Dr. P. Lavanya, Dr. D. Sudhakar, Dr. Mandava Suresh, I express my sincere gratitude to my labmates and friends Dr. V. Jhansi Rani, Dr. K. Veena Vani, Mr. K. Venkateswa Rao, Mr. K. Ramesh Babu, Mr. B. Nagarjuna, Dr. M. Purushotham, Dr. G. Ramesh, Dr. Ch. Sampth, Dr. Y. Kotaiah, Mr. N. Harikrishna, Mr. K. Naga Raju, Mr. S. Triloknadh, M. Aruna Kumari, G. Laxmi Teja, Mr. B. Naga raju, Mr. Yugandhar, Mr. Srinivasu for their kind help during my Ph.D., work. I am thankful to my other colleagues and friends from IICT and also Tapas Ranjan Pradhan, Bignanshu jena, Beera Kishore padi, P. Sivaram, D. Pavan, Eswar Reddy, B. tirupati, K. Seshadri, Y. Vikram Reddy, Sri Krishna, G. Malli Karjuna, K. Praveen kumar, Y. Bharat, G. Janardhan, D. Srinivas Reddy for their suggestion, co-operation and timely help during my research work.

I feel fortunate enough to have been blessed with my beloved friends Pikkili. Nagesh, P. Chandra babu, M. Venkateswarlu, K. Srimanth Rao, Pujala. Nagarjuna, M. Ramoji Rao, Venkata Rama Raju, T. Damu, M. Sunil kumar Reddy, Dr. K. Seshadri, K. Choudary, Dr. Ram Babu, Dr. E. Anjaneyulu, Dr. Narendra Naidu, Dr. N. Krishnaiah, B. Venkata subba Reddy, Dr. K. Suresh Kumar, Dr. Y. Harinath, Dr. Yuvaraju and B. Srinivasulu, D. Srikanth who stood with me at the toughest of my time. I am heartly thankful for their everlasting encouragement and co-operation during the course of this work.

My feelings are beyond the words for their affection, patience, unfailing support and endless optimism of my beloved parents Shri. K. Pedda Gundaiah Naidu, Smt. K. Adhi lakshmi, And my cousins: Mr. K. Sivaji, Mr. K. Suresh for their affectionate encouragement and co-operation during every part of my life, without that it would have been impossible for me to be where I am at present. My heartfelt thanks to my sister Mrs. M. Jyothi, brother-in-law Sri. M. Venkateswarlu, nephews: Mr. M. Yamini, Mr. M. Vishnuvardhan Babu, Mr. M. Kiran for their encouragement, co-operation, support and patience during the course of this work. I especially thank my unt, and my uncle. Mrs. K. Ratnamma, Mr. K. Mallikarjuna and their family members for their encouragement and co-operation during the course of this work and throughout my life.

At this junction I would like to express my special thanks to my school, college and university friends and teachers who were available for me at all my good and bad times.
My sincere thanks to NMR, Mass, IR divisions of IICT and library of IICT-CCMB for their excellent co-operation throughout my research work. I thank all my colleagues belonging to our and other division of IICT for their help and support.

Financial assistance from UGC New Delhi, in the form of Fellowship is gratefully acknowledged. I take this opportunity to thank UGC project fellow under the scheme of UGC Sanction Lr. No. 36-237/2008 (SR), dated: 27-03-2009 and UGC-BSR-RFSMS, New Delhi, for giving financial support in the form of Meritorious Research Fellowship.

I wish to express my heart full thanks to all my research supervisor’s family members and my teachers for giving me moral support at every stage of my career.

I am very much thankful to my friends and colleagues for their kind cooperation.

Finally I would like to thank the people who helped me directly or indirectly in my research. Perhaps, I forgot someone... so, just in case: “THANK YOU, to whom it concerns!!!

Vasu Kasturi … 🌼