I am grateful to the God for showering his blessings in the completion of the research work smoothly and pleasantly.

I deemed it as an immense pleasure, heartfelt admiration and a deep sense of gratitude to my research supervisor Dr. M.C. Somasekhar Reddy, Ph.D., Professor and Head, Department of Chemistry, G.Pulla Reddy Engineering College, Kurnool, without whose indefatigable effort, inspiring guidance, thorough supervision, encouragement and personal care, this research work would not have been completed.

I am indebted to the Management and Dr. P. Jayarami Reddy, Principal, G.Pulla Reddy Engineering College, Kurnool, without whose initiation, encouragement and support, the research activity would not have been started in the department of Chemistry and also this thesis would not have taken the present shape. Further, I express sincere thanks to Sri. N.V.S. Guptha, Asst.Prof, Dept of Physics of the college for his timely help during the preparation of the thesis.

I express my gratitude to Prof. G. Devala Rao, Principal, KVSR Siddhartha College of Pharmaceutical Sciences, Vijayawada, who had not only suggested this problem and guided all through the work but also kept my spirit high up with his valuable suggestions and constant encouragement. I express my sincere thanks to the management of KVSR Siddhartha College of Pharmaceutical Sciences, Vijayawada for their cooperation.

I deeply acknowledge my colleagues Smt. A. Prameela Rani, Sri V. Rama Krishna, Sri, G. Sudhakar Sai Babu, Sri. P. Srinivas Babu, Sri. G. Ramana., Smt A. Bharati, Smt V. Karunasree, Sri M. Eswar Gupta and Sri CH. Babu Rao for their help during the course of investigation. I convey my thanks to all the non teaching staff members of my college for their co-operation during the work.
Last but not the least I cannot conclude without expressing my deep sense of affection to my beloved parents, brother, mother-in-law, wife Smt. I. Sai Leela and my son Master Sanjay for their constant encouragement throughout this period without which this work would not have been completed in stipulated period.

Finally, I wish to express my gratitude to a number of persons who helped me directly or indirectly in completing my research work smoothly and pleasantly.

I. SUDHEERBABU