

ACKNOWLEDGEMENT

The completion of this project could not have been accomplished without the support and blessings of the almighty that strengthened me in my difficult as well as good times.

I take this opportunity to place on record my deep sense of gratitude to **Prof. G. V. SUBBA REDDY**, Professor of Chemistry and Principal, JNTUA College of Engineering, Pulivendula, Kadapa, Andhra Pradesh, India, for giving me an opportunity to do the research work and providing me all support and guidance which made me complete the project in time. I am extremely grateful to him for providing such support.

I am very much thankful to the **Management and Principal, SRNB Degree and PG College, Badvel, Kadapa (Dist.), A.P.** for their support and encouragement during the course of my research work.

I am very much thankful to **Prof. N. Devanna**, Director, JNTUA-OT & PRI, Ananthapuramu giving valuable suggestions throughout preparation of my thesis.

I extend my profound respect and hearty gratitude to **Prof. S.V. Satyanarayana**, Director of Evaluation and **Prof. A. Ananda Rao** Director, Research and Development, JNTUA, Ananthapuramu, for their motivation and invariable encouragement for completion of this thesis.

I am very much thankful to **Dr. Manish Gangrade, Dr. J. Jayachandran and Dr. Nitesh Kanyawar, Cipla Ltd, Research and development, Bangalore**, for their support and encouragement during the course of my research work.

I express my heartfelt thanks to my sons **Mr. Shrujan Sweth Reddy** and **Mr. Rithvik Reddy** and my wife **Sulochana** who formed part of my vision that really matters in life.

I express my deep sense of gratitude to my beloved Parents **Mr. N. Subbaiah** and **Mrs. N. Lakshmi Narayanamma** for their blessings and encouragement during the period of research work.

I express my heartfelt thanks to my friends **Mrs. D. Lakshmi and Mrs. J. Sandyarani**, for their co-operation during my research work.

It is indeed a difficult task to acknowledge the services of all those who have extended their valuable assistance directly or indirectly. I sincerely thank all of them.

NELATURI SUBBAIAH