Any work cannot be the outcome of one person's endeavors. This work owes much to many persons and it gives me pleasure in acknowledging the help of all those who have made it possible.

"Gratitude is said to be short lived but when it is placed on record, one can hope that it sustains". It is with great pleasure, I record my humble gratitude to our beloved Almighty by his lavish love and blessings, that we are able to complete our study successfully. Hitherto and present his piece of work for which we are eternally indebted.

It is my pleasure to express my deep sense of gratitude and indebtedness to my revered guide Dr. CHITTA SURESH KUMAR Professor Department of Biochemistry, Sri Krishna Devaraya University, Anantapur, for his special interest, kindness, cooperation and valuable guidance extended to me for the successful completion of this work. The entire valuable advises given by him will remain as permanent treasure. I am sincerely indebted to him.

I take this opportunity to express my profound sense of gratitude to Mrs. S. Sravani Asst. Professor, Department of Pharmacognosy, Safa College of Pharmacy, Kurnool, for her valuable suggestions and moral support throughout the work.

I owe my gratitude to Dr. S. Ashok Reddy, M. Pharm Ph. D. Principal, Safa college of Pharmacy, Kurnool for providing all the facilities during my work and for his encouragement and support. And I am thankful for the permission to use the lab for the research work.

I express my thanks to Asst. Prof. Mr. Murali and Mohd Dada Department of Pharmacology, Safa college of Pharmacy, for extending the work and look after my experimental rats during the work.

It gives me immense pleasure to thank Mrs. K. Aruna Kumari, Lecturer in Biochemistry, SJDC, Kurnool, for her timely help.

I extend my thanks to Dr. Meera Bai, Dept of Botany, R. university, Kurnool, for helping in the procurement and maintenance of the plant extract.

I express my sincere thanks to B Babajan preferably, and Rajasekar, Chaitanya, Madhusudan for their support and encouragement.

I acknowledge my parents, wife and brother for all the encouragement, love and support.

Finally I express my sincere appreciation and gratitude to my parents and well wishers, who have encouraged me throughout my career.