ACKNOWLEDGEMENT

A journey is easier when you travel together. Interdependence is certainly more valuable than independence. This is the result of three years of work whereby I have accompanied and supported by many people. It is pleasant aspect that I have now the opportunity to express my gratitude for all of them.

At this crucial junction of life it is very difficult to acknowledge all who helped me during my thesis work. They contributed a lot by giving memorable events with their smile, cooperation, guidance and blessings. Though it is very difficult to give words to the feelings but these words are from the very depth of my heart.

Firstly for God, thanks for the gift of life, for letting me be me, for all that I can know by words all that I can see, for all the joy that comes to me and all joy I bring, for all the coved ones I can touch, who love and wise me well, for all the beauty of world, even fresh and new, I don’t know whom else I can thank, and so I am thanking you.

I express my sincere respect and thanks to an eminent person Sir Dr. Hari Singh Gour founder of Dr. Hari Singh Gour University, Sagar.

It is a great pleasure to acknowledge my deep sense of gratitude to my sagacious, erudite and intellect supervisor Prof. S.P. Shrivastava, Department of Chemistry, Dr. H.S. Gour University, Sagar, for his wise guidance invaluable advice, positive criticism, suggestions, constant encouragement and support through the course of this investigation. Being himself a paragon of virtue, serenity and patience, he has inspired me in many ways. He is pre-eminent personality behind successful completion of my thesis work.

I extend my sincere thanks to Prof. K.S. Pitre Head Department of Chemistry, Dr. H.S. Gour University, Sagar, for his timely help through out the thesis as well as providing IR and other instrumental facilities for carrying out my work.

It is my extreme privilege to gratuitously convey my special thanks to Prof. J.T. Rao former Head, Department of Chemistry, Dr. H.S. Gour University, Sagar (M.P.) for kin co-operation during the work.

I am also thankful to Prof. O.P. Chourasia, Prof. T.S.S. Rao and Prof. Archana Pandey, Prof. S.N. Limaye and Prof. A.K. Banerjee.

I want to acknowledge my sincere thanks to Prof. S.P. Bajpai, Head, Department of Botany, for providing the facilities to carry out the biological activities mentioned in the thesis and The Director, MTCC Chandigarh for providing bacteria and fungus.
I am also thankful to all the teaching and non-teaching staff of the department of Chemistry and all the staff members of Jawahar Lal Nehru Central Library, Dr. H.S. Gour University, Sagar (M.P.), for their kind cooperation during the work.

I want to extend my esteemed regards, vast indebtedness and warm gratitude to Dr. M.P.P. Raju, (Research Scientist, Hetero Drugs Pvt. Ltd., Hyderabad), Dr. N.S.S. Raju (Scientist, IISS, Bhopal) for providing NMR spectral facilities and valuable guidance during this work.

I am very thankful to my seniors Dr. Rahul Bardia, Dr. Hari Krishna, Dr. N. Srinivasa Rao, Anil Kumar Ahirwar, Raman Deep Singh, Ajay Prajapati and Dr. Diwakar Verma (Battu Bhaiya) for their valuable suggestions and cooperation during the research work.

I am highly obliged to Smt. Kiran Mai W/o Prof. J.T. Rao, Smt. Veena Shrivastava W/o Prof. S.P. Shrivastava and Smt. Gayatri Chourasia W/o Prof. O.P. Chourasia for their lovely smiling inspiration during the work.

I wish to express my thanks to my Juniors Shradha Jain, Vinod, Mukesh, Malaviya, Nidhi Goutam, Aradhana, Anil Soni, Mahesh Ahirwar, Sushila, Priyanka, Ankur and Mothy for their co-operations during this period.

I thankfully acknowledge the suggestions and help from the research scholars for their co-operations in my thesis work, especially Dr. Ravi Sir (Pharmacy), Sudeep, Dola (Botany), Aviram (Physics), Satosh, Prasanth, Sweety Mam, Neelam, Garima, Kirti, Venu, (NIT), Sunil (NIT), Arun, M.L.V. Setty, Shekhar and Krishna.

I heartily express my thanks to Sri Y. Rama Krishnudu (former speaker, financial minister A.P.), Shri P. Seshugiri (Ex, M.P.P., Tuni), K., Satyanarayana (Andhra Jyoti Staff Reporter).

I express my deep and heartfelt gratitude to my honorable grand parents Late Bulla Bai, Late Chibully and cousin Late Chinnayya.

I express my emotional thanks to my elder brother Shri G. Satyanarayana (Prop. Satay Sri and Satya Sai Agencies), younger brother Chittibabu, brother-in-laws and sisters, cousins N. Sunny, Ganesh (Software Engineers, USA). My deepest gratitude goes to my father Shri Manneyya, mother Smt. Manga (Ex, MPTC) Chinanna Shri G. Satyanarayana (Ex, Sarpanch) for their unflagging love and support throughout my life, this Ph.D. is simply impossible without them.

The aim of Chemistry has been to improve the quality of life.

Chinna Rao, Gantla