ACKNOWLEDGEMENTS

I sincerely express my deep sense of gratitude to my guide and mentor Dr. G. TRIMURTULU, Vice President, Laila Impex Research and Development Centre, Vijayawada, for his sustained enthusiasm, creative suggestions, motivation and exemplary guidance throughout my research program. If anything contained in this thesis is deemed meritorious, it most assuredly can be attributed to the lessons of my guide.

I respectfully acknowledge my gratitude to Dr. G. Ganga Raju, Chairman, Laila Group of companies, Sri. G. Rama Raju, Director, and Mr. B. Kiran, C.E.O., Laila Impex Research and Development centre, Vijayawada for their kind words of advice, whole hearted encouragement and for providing the infrastructure to carried out the thesis work at their laboratories and without whose help the work could not have been carried out.

I express my gratitude to Senior Scientists, Dr. C. V. Rao, Dr. B. Das, Dr. C. Sridhara and Dr. S. Venkateswarlu Laila Impex Research and Development centre, Vijayawada, Dr. C. Sridhar, Director (Academics), Sri Padmavathi School of Pharmacy, Tiruchanoor for their support and fruitful discussions in completing this thesis work.

I am extremely thankful to Prof. C. Rambabu, Principle, University college of Sciences, Prof. B. Kesavarao and Dr. B. Hari Babu, Department of Chemistry, Acharya Nagarjuna University, Guntur, for their help and cooperation during the research program.

I am thankful to Dr. Krishanu Sengupta, Department of Cell Biology, Mr. A. V. Krishna Raju, Mr. D. Sundar Raju and Mr. Ch. Narasimharao, Department of Pharmacology, Mrs. R. Jayalakshmi and Mr. R. Akku Naidu, Department of Micro Biology, Laila Impex Research and Development Centre Vijayawada, for their technical support in carrying out the bioactivity studies.
I am thankful to Mr. K. Gopal Rao, Mr. S. Anil Kumar and Mr. P. B. S. R. Murthy and other staff members of Instrumentation Division, Laila Impex Research and Development Centre, Vijayawada for their help in recording the NMR, LC/MS, UV and IR spectral data presented in this thesis.

I thank to my colleagues and friends Mr. E. Lakshma Reddy, Mrs. M. Bharani, Mr. G. Machi Raju, Mr. M. Ganeshwara Rao, Mr. SK. Shahabuddin, Mr. Y. Ramesh, Mr. I. Durga Prasad, Mr. P. Suresh, Mrs. Ch. Ramani, Mr. R. Srinivasa Reddy and Mr. Ch. Sarweswara Rao for their constant encouragement and support during the execution of this work.

My feelings go beyond the limit of my language in acknowledging the cooperation, encouragement and affection showed on me by my beloved parents Sri. R. Naidu, Smt. R. Satyavathi, my wife Smt. Parvathi, my daughter Miss. Haripriya Durga, my son Mr. Naga Satya Durga Prabhav and all my family members during the entire period of this work.

(R. SURYA CHANDRA RAO)