ACKNOWLEDGEMENTS

I express my profound sense of gratitude and respect to my research director Prof Dr. A. Subramaniyam, Dept. of Bio-Technology, Meerut Institute of Engineering and Technology, Meerut, U.P, for his valuable guidance, constant encouragement and affection throughout the course of investigation. I am thankful to him for inculcating confidence to tackle problems of varied nature and for being a great source of inspiration.

I am deeply indebted to Dr. Ch.V.Rao Senior Scientist, National Botanical Research Institute, Lucknow, for their valuable suggestions, discussions and indefatigable help throughout my research work.

I owe a special debt of gratitude to Prof. G. Devala Rao, Principal, KVS Siddhartha college of Pharmaceutical Sciences, for his constant encouragement and suggestions throughout my research work.

The author expresses his special gratitude for encouragement received from his seniors Dr. Buchi N, Dr. S.Vidyadhara, Dr. A. Prameela Rani, Dr. N. Rama Rao, Dr. M. Eswara Gupta, Dr. P. S. Babu, Sri V. Rama Krishna and G. Suhakara Sai Babu.

The author wishes to express his heartfelt thanks to his colleagues Mrs. A. Bharathi, Mrs. V. KarunaSree, Dr. Ch. ShivaReddy, Sri T. P. Rao, Sri Digpati Roy and Dr. Naveen Babu for their constant help during research work studies.

The author expresses his special thanks to Sri P. Satya Narayana, Mrs. sai Lakshmi, Mrs. Indumathi, Mrs. Sailaja, Mrs. Durga, Sri VenkataRao, Mr. BhaskarRao, Mr. Kiran, Mr. KondaReddy and Mrs. Saileela for their encouragement and interest shown in the present investigation.
I am thankful to Prof. K.R.S. Sambasiva Rao, Coordinator, Centre for Biotechnology, Acharya Nagarjuna University, Nagarjuna Nagar for his invaluable support during my research work.

The author expresses his heartfelt thanks to Siddhartha Academy of General and Technical Education for giving me the opportunity and for providing facilities to carry out research work in the laboratories of KVSR Siddhartha college of Pharmaceutical Sciences, Vijayawada.

I express my thanks to Dr. Trimurthulu, Vice President and Sri Krishnam Raju, Scientist, Laila Impex, Vijayawada for providing the spectral data and for allowing to carry out some biological activities.

I express my gratitude to Sri N.Venkateswarlu, Secretary, Sri Vishnu Varthana Rao, President, Sri KJN Prasad, Joint Secretary, Sri V. Nagabhushan Rao, convener, Sri P. Lakshmana Rao, Treasurer, and other members of Siddhartha Academy Of General And Technical Education, Vijayawada, for their encouragement and interest shown in my research.

I am highly thankful to my office staff KVSR Siddhartha College of Pharmaceutical Sciences for their outstanding support during the course of my research work.

The author extends his gratefulness to all his family members for their constant support and encouragement during the course of work.

I acknowledge with thanks to all my friends and well wishers for their encouragement rendered directly or indirectly at all times in completion of my research work.

G. RAMANAIHAH