ACKNOWLEDGEMENTS

The author expresses his most sincere gratitude to Professor K. Hussain Reddy, M.Sc., Ph.D., Research guide for his constant and never-failing support, excellent guidance and inspiring attitude that made this thesis possible.

The author is grateful to Dr. Somasekhar, Vice-president QA and RA, Vivimed Labs Ltd and Dr. Varaprasad, Head of the Department-Natural products, Vivimed Labs Ltd, for guidance and inspiring attitude that made this thesis.

The author holds a deep sense of gratitude to his parents Sri M. Ch. Dastagiri Reddy & Smt. M. Thulasamma, brother Dhanendra and sister Sujatha for their efforts, unparallel affection and persistent encouragement which made him reach him cherished goal.

Finally the author expresses his warm thanks to his better half Sandhya Rani for her affectionate co-operation in preparing this beautiful thesis.

The author expresses thanks to his friends and well wishers for the completion of this research program successfully.

The author takes this opportunity to extend his gratitude to VIVIMED LABS LTD, Hyderabad for providing laboratory facilities to carryout Ph. D program.

(USENI REDDY MALLU)