ACKNOWLEDGEMENT

I express my deep sense of gratitude to Prof. M. Shyamkesho Singh, Department of Life Sciences, Manipur University, Imphal for his able guidance, constant inspiration and constructive suggestion throughout the course of the present research work and his help in the preparation of this thesis inspite of his busy schedules.

I would also like to express my sincere gratitude to Prof. N. Irabanta Singh, Dean, School of Life Sciences and Prof. R.R. Pandey, Department of Life Sciences, Manipur University for their valuable advice and encouragement. I am also thankful to the Head, Department of Life Sciences, Manipur University, Imphal for providing necessary laboratory facilities.

My ardent thanks are due to Dr. Ng. Brajachand Singh, Professor and Former Head, Department of Microbiology, Regional Institute of Medical Sciences (RIMS), Imphal for providing the test bacterial cultures; to Sri N. Gopimohan Singh, Associate Professor, Department of Agricultural Statistics and Mathematics, College of Agriculture, CAU, Imphal for the statistical analysis.

I am indebted to Prof. P. Kumar Singh, Department of Life Sciences, M.U. for identification of plant species. Thanks are also due to the Director, National Fungal Culture Collection of India (NFCCI), Pune and ITCC (IARI), New Delhi for confirming the identities of some of the fungal isolates.

The completion of this research is largely due to the moral support and untiring efforts received from my husband Dr. Kh. Gourachandra Singh and the active cooperation from my senior Dr. Gehamanjuri Sharma Laimayum and laboratory colleagues N. Tiken Singh, Ms. T. Nirupama Devi, Ms. A. Kayini, H. Reena Devi and Ishworani Ch.
It is also a great pleasure to have the chance of expressing my heartiest thanks to Prof. N. Warjeet Singh and A. Satyabhama Devi, Department of Chemistry, Manipur University for their valuable help and suggestions.

Lastly, I express my profound gratitude to my parents and other members of the family without whose loving support this research work would not have been possible.

November 20, 2013                                 Linthoingambi Wairokpam