ACKNOWLEDGEMENT

First and foremost, I would like to express my deep sense of gratitude to my respected guide and supervisor Dr. D. C. Ray, Assistant Professor, Department of Ecology and Environmental Science, Assam University, Silchar. He introduced me the cryptic field of insect-pest and giving me the great opportunity to realize my Ph.D. thesis. He gratefully acknowledged for his valuable guidance, constant inspiration, advice and supervision in each and every step of my Ph. D. works.

I am thankful to the Head, Department of Ecology and Environmental Science, Assam University, Silchar for providing laboratory facilities during the course of study. I extend my profound gratitude to all the faculty members of the Department for their encouragement. I am also ever grateful to all the non teaching staff of the Department for their help.

I am thankful to Regional Meteorological Centre, Guwahati for providing meteorological data. Dr. P. K. Nath, Assistant Professor of Karimganj College for his valuable advice and helped me to identifying the different plant species.

My special appreciation goes to Dr. Ranabijoy Gope and Dr. Partha Pratim Bhattacharjee, Research scholars, Department of Ecology and Environmental Science, Assam University, Silchar for their extended help and support in the field and laboratory analysis.

I owe my deepest gratitude to my research scholar friends Dr. Arun Jyoti Nath, Mr. Dipendra Singha, Mr. Nepolion Borah, Miss. Monoshree Paul, Dr. Tapasi Das, Miss N. L. Devi and Miss. Hafsa Sultana Lashkar Research Scholars of the Department who have extended their cooperation in the laboratory by creating a pleasant atmosphere.

I owe my gratitude to Anupam Das and Swapan Das of the Deptt. of Computer science who guided me to handling the computer.

It would have been impossible to complete the study without the encouragement, inspiration and support of my parents (Mr. N. B. Nath and Mrs. J. R. Nath) and my beloved wife Mrs. Dipasree Nath. I am indebted to my all the family members for their support backed up throughout the completion of thesis.

Dilip Nath