ACKNOWLEDGEMENT

It is a great privilege to acknowledge the support received from my Research supervisor Dr. Sumanth Kumar Kunda, Dept. of Zoology and Aqua Culture, Acharya Nagarjuna University, Guntur, India, who has been very benevolent and has given me resourceful supervision, unprecedented support, pertinent encouragement and valuable suggestions throughout my research activity.

I am greatly indebted to Prof. Y.R. Haragopala Reddy, Vice Chancellor, Acharya Nagarjuna University, Prof. K.V. Rao, Rector, Prof. M.V.N. Sharma, Registrar, Acharya Nagarjuna University, Prof.P. Shyam Sundar, Principal, University College of Sciences and Prof. Z. Vishnu Vardhan, Dean, University College of Sciences, Chairman- Board of Studies, & HoD, Dept. of Environmental Sciences, for their affection, and timely suggestions to complete the present task.

I express my sincere and profound sense of gratitude to Dr. A.V.V.S. ,Swami Assistant Professor, Department of Environmental Sciences, Dr. P. Brahamji Rao, Assistant Professor, Department of Environmental Sciences, Acharya Nagarjuna University for their immense cooperation for carrying out my research work.

I express my sincere and profound sense of gratitude to Dr. Chandra Sekhar Reddy, Scientist (Agril.Econ), and Dr. Gurava Reddy Scientist (Agril.Ext), Agriculture Research Station, Lam farm, Guntur for their involvement in finalizing the research methodology, and their consistent cooperation, support, help and expertise offered during the tenure of research work.
I will cherish the splendid company of Mrs. K. Pramila Rani, W/o Dr. Sumanth K. Kunda; Mrs. Subhashini U, faculty member; Mrs. Maruthi, research scholar, Dept. of Envt. Sc, Acharya Nagarjuna University, Ms. Sandhya Rani, software engineer, Chennai, for their constant and timely help.

I am greatly indebted to Ms. Chittem Prathiba Bharathi, Mr. Madhu Prasad D, Mr. Anjaneyulu I, Mr. Pratap and Praveen, research scholars in Dept. of Zoology and Aquaculture, for their support, constructive criticism and moral support. I will ever cherish the memorable movements of fabulous company of Ms. Bhavani, Ms. Lavanya, Ms. Parvathi, Ms. Mani and Ms. Saroja, PG students, Dept. of Environmental Sciences, Acharya Nagarjuna University for their physical help involvement and timely support during the peak stages of research work. My special thanks are due to Mr. Neelakantam, and Mrs. Lakshmi supporting staff of Dept. of Environmental Sciences, Acharya Nagarjuna University for rendering their services during the tenure of my stay.

I owe a lot to Dr. K. V. Venkata Rao, Librarian, and other library Staff, Ambedkar Memorial Library, Acharya Nagarjuna University, for their cooperation and invaluable encouragement by providing excellent literature on each time.

I express my deep sense of gratitude to the family members of Bt cotton growers of sampling station viz. Tadikonda, Amaravathi and Prathipadu, for their readiness to share their experiences in the Bt cotton cultivation.
I owe immensely to my better half Dr. Srinivas R. Gochipata for his filial care, watchful warmth, forbearance and refreshing company during my Ph.D. period. My vocabulary fails to express the emotion towards my little hearts Master. Nishanth Nathan, and Master. Mona for their immense love and naughtiness made me to shred off all my tensions and discomfort. I express my special gratitude to the family members of Gochipata, Chatlas, and Kattens-U.S.A., for their love and affection.

I express my deep sense of gratitude to my beloved mother Mrs. Dhanamma Chatla, whom I dedicated this thesis, for her blessings love and affection, and nourishing my thoughts to work for a noble cause. I am greatly obliged to express my utmost thanks to Mrs. Rajeswari, M/s. Sri K.P.Babu Computer, Guntur, for her computational work with enough patience, in spite of maternal constraints.

I meekly kneel down and offer my wholehearted thanks to my Lord God, who is omniscience for affording me with sound knowledge and wisdom as well as for His eternal grace throughout my research work without whom any task would be unfinished.

Suneetha Chatla