I welcome the specific moment of this great opportunity and pleasure to express my cordial gratitude to my esteemed research guide Dr. K.N. Mishra, Reader Deptt. of Botany and Environmental science T.D. P.G. College, V.B.S. Purvanchal University, Jaunpur, who has been always provided me extraordinary help, guidelines, literature facilities and continuous inspirations through out the period of research work.

I express my sincere gratitude to Dr. R.S. Singh Principal i.U. College, Dr. U.K. Singh, Head Deptt. of Botany T.D. College, Jaunpur for providing laboratory facilities in department and to other teachers of the Botany department for their valuable academic suggestion. I am also thankful to Mr. Sri Narayan Singh (Lab assistant) for his cooperation during the laboratory works.

I am lifelong indebted to my parents, (Shri M.P. Srivastava & Smt. Nirmala Srivastava) Who have been a source of continuous inspiration and outstanding support in performing this hard work, which was impossible without their parental care. It is my great pleasure that I dedicate the thesis to my loveliest parents.

I am heartily grateful to my uncle Sri R.C. Srivastava (Lect. of Botany, G.S.V.S. Inter College, Maharajganj(GKP.)) and his son-in-law Dr. Ajay Kumar Srivastava (Suyas Clinic, Jaunpur) for their moral boost and continuous encouragement during the period of research work.

I express my deep sense of gratitude to emeritus Prof. K.B. Mishra and his research scholar "Shashi Bhusan" Deptt. of Botany, Magadh University Bodhgaya: Bihar for their specific guidelines in the early stages of my research work.

I express my sincere appreciations, cordial love and thanks to my affectionate friends, Mr. Ashok Kumar Yadav, Mr. Mangla Prasad Yadav, Mr.
Rakesh Kumar Singh and Mr. Rajiv Kumar Siuha for their encouragement and manifold supports at all fronts during the period of research work.

I am also thankful to Mr. O.P. Mishra, for providing the meteorological data of the Jaunpur city.

I express my heartily thanks to my seniors Dr. V.P. Tiwari, Dr. L.P. Maurya and Colleagues Dr. Umesh Chandra Mishra and Dr V.K. Chaube for their contributions during the research work.

My best complements goes to the entire family members of Dr. K.N. Mishra especially to his son Devesh Kumar Mishra, daughter Joya Mishra and grand daughter Divya for their familiar cooperation during the entire period of work.

I am realy indebted of the Shivaji Rao Gaikwad Library BHU, its Librarian and other associated workers for providing their library facilities to consult world wide literature about the various aspects of my work.

I am also grateful to Dr. R.P. Singh (DMO, Jaunpur) Mr. Ram Singh (SMI Jaunpur), Mr. Rohitas Dubey (L.D.C., Jaunpur), Mr. A.S. Seth (M.I. Rampur) and Mr. Devendra Kumar (F.I. Rampur) for his inspiration and moral support during the thesis writing.

I am thankful to Mr. Vijay Kumar Gupta and owner of Basini studio for his cooperation in outdoor photography to the different study sites.

My heartily thanks goes to Mr. Bharat Kapoor owner of "G.K. Computer's Job-Work" and especially to "Yogesh Chandra Rai", who is like my younger brother, for their full cooperation in typing the manuscript of the thesis.

Lastly, I must extend my special occasional thanks and corcial emotions to my affectionate wife "Seema Srivastava" for keeping good pace and outstanding cooperations during my research work.