ACKNOWLEDGEMENT

It is my proud privilege to express my deep sense of gratitude to my benignant supervisor and reverent teacher Dr. M. Abbas Ali Khan, Reader and Head, Environmental Research Laboratory, Department of Botany, Kisan P.G. College, Simbhaoli (Ghaziabad) who motivated and guided me all through with keenness, sustained interest and his crystallized wisdom become leampost which showed me right direction to steer ship of research. Infact, I can never forget the sympathy and affection extended to me during the research work.

I am more also grateful for the support from Dr. Sudhir Kumar, Reader, Department of Botany, K (PG) College, Simbhaoli and Dr. Gulpham Ali. They assisted me to that extent without which it was not possible to formulate this investigation into Ph.D. Thesis. I express my deep gratitude and obligation to Dr. R.S. Chauhan, Principal, Kisan (P.G.) College, Simbhaoli for his inspiration, advice and official support throughout my research work.

I am grateful to teachers Dr. R.K. Gupta, Dr. V.K. Chauhan, Dr. J.P.N. Srivastava, Department of Chemistry, Dr. J.S. Sachdeva, Reader and Head, Department of Zoology. They taught me during B.Sc. and for their timely helped rendered me from time to time in my research work.

My sincere thanks are due to Mr. I.S. Bhatia, G.M. of the Simbhaoli Sugar Mills and distillery division for providing me raw material for research and valuable suggestions without no reservations. I also extend sincere thanks to Dr. Naresh Chandra Upadhyay, Senior Scientist, Soil Science Division, Central Potato Research Institute (CPRI), Modipuram, Meerut for their cooperation and valuable help in compost and soil analysis.

My sincere thanks are also due to the authorities, staff and libraries of IARI, New Delhi, NBRI, Lucknow, Osmania University, Hyderabad, C.C.S. University, Meerut, Central Library, K (PG) College, Simbhaoli for their help, cooperation and timely help in providing the journal, research papers and other valuable literatures.

I am highly thankful to my senior/junior students of Laboratory, my colleagues Dr. Geeta Siddhu, Smt. Ruby Rani, Smt. Kazma Toheed, Smt. Geeta Kasyap, Dr. Iftikar Ali, Dr. Devpal Singh Sirohi, Mr. Sanjay Kumar Yadav.
My special thanks are due to my aunty Mrs. S.M. Khatoon for her blessings, valuable support and kind cooperation during the course of my research work.

No words, no language is even adequate to express my heartfelt veneration for my respected parents, who always being a guided sole for me (Late) Dr. Jai Bhagwan Singh and Smt. Leela Devi, my in-laws Shri Mukut Lal and Smt. Attarkali Devi, Brother in Law Mr. Jai Bhagwan, Mr. Anil Kumar (Advocate) for their cheerful enthusiastic and dedicated efforts to engage me in the pursuit of higher studies. The listening of my gratitude however, would remain incomplete if I do not place on record the eternal source of strength provided to me by my sweet sister Smt. Shalu Rani and her husband Dr. Pawan Kumar, my younger brother Mr. Manoj Kumar, Dr. Subodh Kumar, dearest Bhabhi Smt. Anita Rani, my lovely niece Kimmi, Ruhani and Nephew Kashish.

I also extent my heartiest and sincere thanks to my husband Mr. Sunil Kumar Kasyap for his whole hearted support and encouragement especially during the period when I felt discouraged and disappointed. Nevertheless, my lovely daughter Anjali also deserves a big thanks for creating an ideal atmosphere for me by giving all possible support and help during my research work.

Etiquette behaviour and amicable nature of Mr. Pramod Kumar Saxena, Mr. Bahadur Singh and Mr. Ramesh Kumar of Environmental Science Lab. whose affection and encouragement have been assisted me in research work.

Last but not least a word of thanks are also due to Mr. Heero Hito his wife Mrs. Pooja and Mr. Guruvinder Pratap Singh of Aki Computers, Hapur for typing the manuscript promptly and efficiently.

Finally and above all I would like to thanks my Satguru Saint Rajinder Singh Ji Maharaj for giving me strength, wisdom and for successfully accomplishing this voluminous task well in time.

With best regards!

Thanks

Kavita

Mrs. Kavita