Acknowledgement

I express my sincere thanks to my guide Dr. M. S. Rao, Principal Scientist, Division of Entomology & Nematology, Indian Institute of Horticultural Research, Bangalore for his valuable guidance and concern which inspired me throughout the work.

I extend my special thanks to Dr. M. Lakshmi Narasu, Director, Department of Biotechnology, JNTU and Dr. Archana Giri, Professor and Head, Department of Biotechnology, JNTU for their kind hospitality and suggestions during the entire work.

I am immensely thankful to Dr. A. S. Siddhu, Director, IIHR for extending complete help from the institute and to Dr. Abraham Vergheese, Principal Scientist and Head, Division of Entomology and Nematology, IIHR for his encouragement lead to my admission.

I am extremely thankful to Director, All the staff of R&D cell, JNTU, for their kind co-operation

I owe immense thanks to Mrs. Sowmya, Mrs. Chaya, Mrs. Ratnamma for their timely help and encouragement in all walks of technical and non technical aspects of research and for their unforgettable hospitality and for their kind advices which lead to successful completion of the project work and report in time.

I proudly record my warm thanks to my loving friends Mr. J. Gavaskar and Mr. Raj Thilagar for their invaluable help, pacifying words, moral and spiritual support during the entire work.

I express my sincere thanks to Mr. Gubanna, Mr. Manju, Mr. Uday and Mr. Venkatramana, without whose help the project would be incomplete.
I also thank Mr. Rajinikanth, Ms. Preethi, Ms. Grace, Ms. Anusha for their co-operation in completing the work.

I extend my heartfelt gratitude to Dr. Krishna Reddy, Principal Scientist and Head, Plant Pathology, IIHR and Dr. Kamala Jayanthi, Principal Scientist and all faculty members of Department of Entomology and Nematology, who helped me to sustain my interest and thereby accomplishing this task with their complete support.

I am greatly indebted to all my beloved extended family members for their prayer support. I am more indebted to my Parents and brother for their love and affectionate prayers which helped me to successfully complete my work.

I am extremely thankful to all technical and non technical staff (Administration) of IIHR for their complete co-operation during the research.

Last but not least I am immensely thankful to Archana- my wife for her backing up and valuable time she gave me in completing my thesis in a proper shape.