The attitude bliss and emphasis that accompanies the successful completion of my task would be incomplete without the expression of application towards those who have rendered help and guidance throughout my research work. The journey, which starts with brilliant ideas and continues in the right direction will decisively end up with cherish destination. And the journey, which we started with the same and continued in the right direction of research guide, has also reached an edifying destination in the form of successful completion of research but at the same time we would like to say that we cannot express our gratitude just by thanking them, instead we believe that all these people will be residing in our heart forever their tremendous support and encouragement, we acknowledge all those who’s guidance and encouragement has made us to do what is done so far.

I feel proud to express my heartiest respect, gratitude and sincere thanks to my supervisor Prof. B. B. Kalswal, Chairman, Post-graduate Department of Studies in Microbiology and Biotechnology, Karnatak University, Dharwad, for his effective suggestions, encouragement and making me acute and perfect by providing effective advices in each and every step of this research work.

I am deeply indebted to Prof. B. A. Shanbag Chairperson, Post-graduate Department of Studies in Zoology, Karnatak University, Dharwad for providing all the facilities during the research work.
I have great pleasure in expressing my deep sense of respect and sincere thanks to all reverend teachers, Post-graduate Department of Studies in Zoology, Biotechnology and Microbiology Karnataka University, Dharwad, who were a source of inspiration and motivation to complete this task.

I also thankful to Dr. J. S. Patil Dy. Director of Sericulture, Dharwad and his staff for providing adequate support.

I specially place on my heart and record my deep sense of appreciation to my beloved friend Dr. Arundhuti Bhattacharya, who always generating help and willing inspirations in my academic carrier from the bottom of the heart. Her encouragement and all kind of support with worthy suggestion have always kept me refreshed during the period of study.

It is my pleasure to get an opportunity to acknowledge my sincere thanks to my friend cum sister Prema. The research work has been benefited enormously from the combined efforts and helping hands who helped me lot of this research work to whom my affection have to be expressed her helping hand which is memorable episode in my life.

I am also thankful to Smt. Shova B. Kaliwal who kindled in me the light of research and making me push ahead in the presentation of the thesis, She treat me as a daughter and who made me feel at home.

I express my deep found gratitude to my beloved parents Late Asoke Kumar Chakrabarty and Smt. Kalyani Chakrabarty. I bow my head on the feet of my beloved parents. Who showed me this world and made me to see and achieve
all the treasures and have not left me deficient in any regard. It is due to their blessings for whatever I am achieving now.

I reverentially extend my sincere gratitude to my beloved uncle Sri Hirendra Nath Bhattacharya and aunty Smt. Bharathi Bhattacharya who have been motivating and inspiring me to carry out my research work and their cooperation and love extended during the entire research work without whom fulfillment of my research would not be possible.

My heartfelt thanks to my sisters Shanta, Sima, Bhaswati, Geeta, Reshma, brothers Arindam, Bapi, Rohit and my nephew Ritobrita for their constant encouragement during this study, otherwise which this would have just been a dream to me and would not have been possible.

I profusely thank all my research colleagues and non-teaching staffs of Post-graduate Department of Studies in Zoology, Microbiology and Biotechnology, Karnataka University, Dharwad for their help and co-operation throughout my research work.

At last the moment came to look into the deeper layers of my heart which is filled with the feelings of togetherness, loveliness, consolation and satisfaction. I thank whole heartedly to them some are permanent and some of persons to whom I acknowledge my warm regards.

Place: Dharwad  
Date: July 27, 2006  
(Swati Chakrabarty)