ACKNOWLEDGEMENTS

Words fail to express my feelings of deep gratitude and indebtedness to my esteemed guide Dr. Humayun Murad, Professor, Dept of Zoology, Aligarh Muslim University, Aligarh for his austere guidance, constructive criticism, keen interest and helpful advice throughout the course of this study. His experience in entomological research as well as his willingness to share it with me was of great help in completing the present work.

I greatly owe to Mr. M. G. Khan Director, Prof. P.K. Srivastava, Dean, F/O Agricultural Sciences and Prof. Akhtar Haseeb, Chairman, Dept. of Plant Protection, F/O Agricultural Sciences, Aligarh Muslim University, Aligarh for helping in various ways in submission of the thesis.

My particular thanks are due to Chairman, Dept of Zoology, Aligarh Muslim University, Aligarh for providing me necessary laboratory facilities and kind help. Thanks are also due to Dr. (Mrs.) Naushaba Murad, senior reader, in Zoology and Miss Roomana Humayun for being constant source of moral support during the course of this work.

It is my pleasure to thank my senior lab colleague Mr. Mohd. Amir, whose constant support and academic infusion led to the fruition of my present endeavors. My thanks are due to Dr. Khwaja Jamal for being of immense help during my research work especially in the photomicrography. Encouraging company of Mrs. Kh. Jamal is also felt with sense of deep gratitude. I am also highly thankful to my colleagues Mrs. M. Haseeb, Dr. (Mrs.) Ayesha Qamar, Dr. (Mrs.) Rubina Amir, Mrs. Rubina Hafeez and Mr. Sadre A. Fakhri for their unflinching support and advice.

I am also grateful to Dr. H.R. Khan - SG, Mr. Calji Prasad - SE, Dr. M. Ahmad - SF, Mr. R.S. Bhandari - SF and Mr. Subhash Chandra - RA-I, Division of Forest Entomology, F.R.I., Dehradun for their co-operations and help whenever required. My sincere thanks are due to Dr. Md. Jamal Ahmad, Dr. P. K. Singh & Dr. S. N. Sen of Forest Entomology Div., F.R.I. for their help and co-operation.

Thankful acknowledgements are also extended to my colleague & friends Dr. Md. Niamat Ali, Dr. Badshah Khan, Mr. Zakir Husain, Mr. Abrar Ahmad, Ms. Rana Samad, Mr. M. Afzal Khan, Mr. Samuddin, Mr. M. Bhardwaj, Mr. Abul Farah and Mr. Faisal for their help in many ways.

My father, (Cate) mother, and other family members deserve my heartfelt gratitude for their infinite inspiration and encouragement without whose sustained patience and perseverance the present work would not have been possible. Most cordial thanks are due to my wife Mrs. Farah Israr, her mother, elder sister and Mr. Md. Farooq for being ever generous in the upkeep of my high morale.

Last but not least I am thankful to the Almighty for bestowing me the opportunity and strength to complete this work

(ISRAR AHMAD ANSARI)