ACKNOWLEDGEMENTS

All my heartiest praises to the Almighty ALLAH, the Most Merciful and the Lord of Universe. I praise ALLAH (SWT) for everything bestowed upon me, especially for favour in completing this work. Our beloved Prophet Mohammad (SAW) who said, “Seek knowledge from cradle to grave”.

I would like to thank and express my sincere gratitude to my supervisor, Dr. M. Shafiq Ansari, Associate Professor, Department of Plant Protection, Aligarh Muslim University, Aligarh for his guidance, assistance and support, regular advices and friendly nature throughout the period of my work. I shall constantly obliged and try to follow him in future.

I am grateful to Prof. P. Q. Rizvi, Chairman, Department of Plant Protection, for providing essential facilities and continuous support during my research work and Prof. (Mrs.) Farzana Aleem, Dean, Faculty of Agricultural Sciences, A.M.U, Aligarh for suggestions and cooperation.

I shall remain thankful and highly indebted to Prof. Akhtar Haseeb (Former Chairman, D/O Plant Protection), Dr. Mujeebur Rahman Khan, (Former Chairman, D/O Plant Protection), Dr. Raees Ullah Khan, Dr. Shabbir Ashraf, Dr. (Mrs.) Masarrat Haseeb for their critical suggestions, support and encouragement during the study period.

I would like to pay special thanks to certain International authorities on Diamondback Moth (DBM), Dr. A. M. Shelton, Department of Entomology, Cornell University, USA, Dr. R. Srinivasan Interim Head (Entomology), AVRDC, Taiwan, Dr. Liu, Shu-Sheng, M. Sarfraz, University of Alberta, Canada for providing literatures.

I am also thankful to Dr. Jawed Siddiqi, Associate Professor, Department of Electronic Engineering, Prof. Athar Ali Khan (Statistics), Mr. Mohammed Ali Khan, Chairman, Department of Post Harvest Engineering & Technology and Mr. A.K. Srivastava, Sr. Lecturer for their help in solving mathematical problems related to my research work.

My special thanks to Mr. Haidar Ali, Mr. Nadeem Ahmad and Mr. Salman Ahmad, Dr. Tufail Ahmad, Dr. Vipin Kumar, Dr. Arshad Ali, Dr. Wajid Hasan, Fazil Hasan, Mahmoud Khan, Arshad Anwer, Zia-ul-Haque, Saijed Ahmad and Owais Ahmad who sacrificed their valuable time and extended helping hand during the Ph. D. work.

I am thankful to The Vice Chancellor, Director of Research and Associate Director (Research), Birsa Agricultural University, Kanke, Ranchi (Jharkhand) for providing me an opportunity to sanction the leave for three years with salary and to complete and submit my Ph. D. thesis at Aligarh Muslim University, Aligarh.

My father (late), mother and other family members deserve my heartfelt gratitude for their infinite inspiration and encouragement without whose sustained patience and perseverance the Ph. D. work would not have been possible. Most cordial thanks are due to wife and my children and her family members for being ever generous in the keep up 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.

NAZIRUSSALAM