Acknowledgement

At this transitory phase, word fails my pen, to acknowledge those unique, fine personalities, who has made a vital contribution in accomplishing this thesis work.

With immense pleasure, I express my sincere and deepest sense of gratitude and heartfelt regards to my Supervisor of this Ph.D. programme, Dr. Pinakj Acharyya, Assistant Professor & Head, Department of Horticulture, Institute of Agricultural Science, University of Calcutta, for constant encouragement, sincere guidance, sustained interest throughout the course of this investigation. I am grateful to him for his tireless efforts and constructive criticism in preparation of the manuscript.

It is my sublime privilege to express my deep sense of veneration to Associate Supervisor of my Ph.D. programme Prof. Pranab Hazra, Professor, Department of Vegetable Crops, Faculty of Horticulture, Bidhan Chandra Krishi Vishwavidyalaya, for his unestimated guidance, valuable suggestions and incessant support. Although I am aware that these words are no means to measure his contribution and are really insufficient to word off a bit of debt, I have already incurred.

I feel great pleasure to avail myself of this opportunity to express my profound sense of gratitude and indebtedness to Revered Swami Sadanandaji Maharaj, Chairman of Ramkrishna Ashram Krishi Vigyan Kendra, Nimpith, for his moral support and encouragement during the period of this research programme.

Acknowledging to Dr. Nilendu Jyoti Maitra, Programme Coordinator of Ramkrishna Ashram Krishi Vigyan Kendra, Nimpith, would simply mean a mean way of recognition. His persistent encouragement and moral support throughout the course of work has been an experience unforgettable.

Devotion and team spirit of my seniors, juniors and friends of Baileygunge Science College have been a source of inspiration in overcoming this arduous venture. I am especially indebted to Mr. Uttam Saha, Ms. Lopamudra Chakraborty, Dr. Samik Sengupta, Mr. Sambit Dutta and Mrs. Tanishree Goswami for their peerless support and necessary helps during the course of work.

I convey my sense of gratefulness from the core of my heart to Dr. Lakshman Chandra Patel, Shri Skyam Sundar Lakshman, Dr. Subhasis Roy, Dr. Ramkrishna Ghosh, Shri Sukriti Ranjan Baur, Shri Bhaskar Mukherjee, Shri Arabinda Samanta, Shri Subal Chandra Das, Shri
Partha Banik, Shri Utpal Maity, Shri Debasis Halder, Shri Debasis Bandopadhyay, Shri Sankar Halder, Shri Debjoyoti Maitra, Shri Biren Das and other colleagues of my KVK fraternity for their intensive encouragement, constructive criticism and necessary cooperation which helped me to improve myself and my work.

I reiterate my deepest gratitude to Dr. Kalyanbrata Sengupta, Dr. Dipak Kumar Roy, Shri Prasanta Chatterjee, Dr. Avijit Roy, Shri Swapan Kumar Samui and Dr. Manasi Chakraborty for their valuable suggestions and help to carry out my work more accurately.

My sincere thanks are due to Dr. P.K. Sahu, Associate Professor, Department of Agricultural Statistics, Faculty of Agriculture, Bidhan Chandra Krishi Viswavidyalaya, for his unexpected help rendered during my statistical analysis.

Thanks are due to Shri Nimai Mondal, Shri Goutam Das, Shri Prosenjit Maity, Shri Sabir Hossen Molla, Shri Asit Sarkar, Shri Sandip Naiya, Shri Biren Gayen and Shri Madhab Kayet for their valuable help during the entire course of field work. Thanks are rendered unending for Kamal, Bablu, Nandi and all other members of Farm Family of the RAKVK Instructional Farm for their unforgettable tireless help during my fieldwork at the Farm.

I fondly remember and acknowledge the help and cooperation rendered to me by my dear colleague-cum-brother Aditya, Atit, Arun, Sahanur, Susanta and Tapas whose helping hands, knowingly or unknowingly, make this project a success.

I wish to express my sincere thanks to other research workers in the area of my study. Their study, research papers and inferences helped me a lot in framing and conducting my dissertation.

Words and deeds are really insufficient to repay the unending love and constant inspiration to all my loving friends especially to Santwana, Bholu, Gouranga, Nintu, Paltu, Nasim and Rupakha.

Last but not the least, I express my deepest sense of gratitude to all my relatives and other family friends for their sustained encouragement and moral support.

Date: Oct, 2012

(Chandan Kumar Mondal)