ACKNOWLEDGEMENT

First and foremost I bow and thank the Almighty God for His blessings, which enabled me to accomplish this venture.

God bestowed me with loving and caring parents whose relentless encouragement, pure love and unmatched affection made me what I am today.

It is my proud privilege and I feel immensely happy to express my gratitude with heartfelt feelings of reverence to my advisor Dr. Sobita Simon, Professor, Department of Plant Pathology, for her able guidance, keen interest, untiring attention and encouragement throughout the research, I am so blessed to be among one of her research scholars.

I express my sincere gratitude and thankfulness to the members of my Advisory Committee Dr. Shafaat Ahmad, Professor and Head, Department of Plant Pathology and Entomology, Dr. S Saravanan, Associate Professor, Department of Horticulture and Dr. Suchit A. John, Associate Professor, Department of Biological Sciences for their continuous guidance and valuable suggestions throughout the entire course of this study. I wish to express utmost thanks to Dr. P.W. Ramteke, Professor and Head, Department of Biological Sciences for his relentless co-operation whenever I needed his expert guidance and help.

I do not have words to express my feelings and whole hearted gratitude to my husband Amitabh Singh Arambam, for being supportive and for being there for me through thick and thin and in helping me achieved my goal. Thanks for being there and for being the most wonderful husband. Special love and thanks to my sweet little beloved sons, Ritchie Arambam and Riordain Arambam. Ritchie (Bungbi) thank you so much for your co-operation from a tiny age and welcoming the stride with your accommodating nature. You are my best companion in my entire venture.

I am also grateful to all the non-teaching staff of the Department of Plant Pathology and Entomology in helping me whenever necessary.
I am also extremely grateful to my friends Viviane Baharally, Anamika, Shefali, Sumobala, Sunitibala and Devi Singh. Heartfelt gratitude to my juniors Tayal, Swami, Samananda, Monica, Neerja, Rina, Niwancy, Rosemary, Alicia, Iba, Luloo, Anurag, Yogi, Sunil, Dipu, Satyabarta, Prabina, Nongallei, Roshan, Dhanapati and Kamaludeen for helping me in every possible way during this entire venture.

My special thanks and deep gratitude to my late father-in-law Mr. Arambam Pradeep Singh (IPS) for his untiring support and deepest concern but sadly and remorsefully, could not make it to see this day. Pabung thank you so much for everything. I am so very blessed to have you as my guardian, and as guidance though it was for a very short span of time, you had provided the best in everything in every possible way.

I am also grateful to my sisters, Yasmeen, Angelica, Aranza and Arnica and my brother-in-law Laishram James for their inspirations, constant encouragement, advices and suggestions during this study. Special thanks to my niece, Twinkle and to my nephews, Ellian and Rehaan.

My report will remain incomplete without thanking Jaffer, King Cyber and Intech bhaiya for providing me the necessary facilities for computing the research in time and the Management of Sam Higginbottom Institute of Agriculture, Sciences And Technology, Allahabad, for providing me an opportunity to gain valuable knowledge and opening greater avenues for a bright career ahead.

Thanking each and every person soliciting their good wishes for my future.

Date: 

Place: 

Vandana Mutum