ACKNOWLEDGEMENT

First of all, I bow my head before the God Almighty who extended to me every gesture of help in thoughts, words and deeds and also blessed me with health, strength and confidence always. This small venture is no exception.

I am highly grateful to Indian council of Agriculture Research, New Delhi, for granting me sufficient study leave to undergo this Ph.D. programme.

I feel immense pleasure in expressing my deepest sense of gratitude and profound indebtedness to Dr. K.V. Peter former Director of Indian Institute of Spices Research (ICAR), Calicut, Kerala for his valuable suggestion, persistent encouragement thought provoking suggestions and prodigious help.

I am equally indebted to Dr. K. Udaiyan, Prof and Head, Department of Botany, Bharathiar university, Coimbatore who provided me the opportunity to do the Ph.D. programme and also providing me the necessary facilities and valuable suggestions during the course of investigation.

I would like to thank all the Faculty members and Staff of Department of Botany, Bharathiar University, Coimbatore for their kind help and co-operation during the course of study.

I am highly obliged to express my sincere gratitude and indebtedness to Dr. V.R.K. Reddy, Reader, Department of Botany, Bharathiar University, Coimbatore, the esteemed guide of my studies, for which he had conscientiously gone through each and every bit of my work and offered searching comments and suggestions throughout the course of investigation, and in the preparation of the thesis. I owe a great deal for his understanding mind, never ending encouragement and all sort of help and support bestowed up on me during the course of my study.

It is my privilege to place on record the deep conviction of Mr. B. Krishnamorthy, Head of the Division for the Crop Improvement and Biotechnology and my colleagues Dr. J. Rema, Scientist (Senior Scale), Indian Institute of Spices Research, Calicut, Kerala for the undue help, valuable suggestion and constant encouragement extended to me during this course.

I would like to pay my sincere thanks to Dr. B. Chenbagam, Senior Scientist and Head, Division of Plant Physiology & Biochemistry, Indian Institute of Spices.
Research, Calicut, for providing the Laboratory facilities and technical help to carry out the biochemical studies.

I wish to express my heartfelt thanks to Dr. S. Dhamodaran, Senior Scientist, Sugarcane Breeding Institute, Coimbatore, Dr. S. Arumugam, Lecturer, St. Xavier’s College, Palayamkottai, Dr. A. Subhashini, Lecturer, Ethiraj College, Chennai, Mr. K. Sundaravadivel, Technical Officer, Central Institute for Cotton Research, Mr. K. M. Gothandam, Mr. V. R. Sathyamoorthy, Ms. K. Gajalakshmi, Ms. G. Kalaiselvi and Ms. Binumol, Research Scholars, Department of Botany, Bharathiar University, Coimbatore, for their help during the period of my study.

I would like to acknowledge the timely help of Dr. Terry Berk, Associate scientist, Asian Vegetable Research and Development Center, Taiwan, who provided the valuable seed material of different species of Capsicum for the biochemical studies.

I feel scanty of words to express my heartfelt gratitude to my husband Shri K. P. Sundararajan and my beloved children Selvi K. P. S. Pavithra and Selvi K. P. S. Priyanka who beared all sorts of difficulties due to my absence during the course of my study.

I also assert the expertise of M/s Suri Associates, Lawly road, Coimbatore for their meticulous care and sheer tidiness in typing the manuscript in time.

Finally, I accept with gratitude, the efforts of one and all, who toiled with kindness and cooperation with me, towards furthering my research programme.

K.P.M. DHAMAYANTHI