ACKNOWLEDGEMENT

With immense gratitude, I acknowledge my research supervisor, DR. A. GANAPATHI, Reader Department of Biotechnology, School of Life Sciences, Bharathidasan University, for his guidance, continuous support for the successful completion of this doctoral thesis.

It is my pleasure to thank DR. M. VIVEKANANDAN, Professor and Head, Department of Biotechnology, for providing infrastructural facilities and constant encouragement during the research period.

I wish to express my gratitude to DR. T. VENKATESAN, Professor of Botany (Retd.), Periyar E.V.R. College, Tiruchirappalli, for his interest and help in my research work.

My heartfelt thanks to DR. (Mrs) K.K. SEETHALAKSHMI, Scientist, Kerala Forest Research Institute, Peechi, Trichur, for her valuable advice to execute experiments.

Grateful thanks are extended to DR. K. UDHAICYAN Prof. and Head Dept. of Botany and his Research group Bharathiyar University, Coimbatore, for their help in identification of VAMF.

I wish to express my greatfulness to DR. M.R. CHANDRAN, Co-ordinator, School of Life Sciences, for the help and encouragement provided to carry out this study.

I owe thanks to DR. P. SUBRAMANIAN, Reader, Department of Animal Science, DR. A. S. RAO, DR. M. KRISHNAN, Reader Department of Biotechnology, DR. N. JAYABALAN, Reader, Department of Plant Science, Bharathidasan University and my former teacher of schools and Colleges - for their help and encouragement.
It is a great pleasure to thank DR. D. J. BAGYARAJ Agricultural University, Bangalore, and MR. S. CHINNAKANNU, P.G. Assistant, Govt. Hr. Sec. School, Kulithalai, for their help to carry out the work.

I am thankful to DR. N. RAMAN Reader, CAS in Botany, Madras, for his help in identification of VAMF spores.

I am thankful to PROF. SM. RAMASAMY, Director, Centre for Remote Sensing and his Research Unit Members, DR. S. VASUDEVAN, K. PALANIVEL and G. GOBU for their help in preparing, sampling location map.

I wish to cherish the good wishes of my colleagues DR. T. APPASAMY, DR. A. SHAJAHAN, DR. K. KATHIRAVAN, DR. S. SUDHAKARAN, DR. S. KULOTHUNGAN, Mrs. G. THIRUPURASUNDARI, G. ANANTHA KRISHNAN, V. RAMESH ANBAZHAGAN, Miss. S. GIRIJA, R. PREMANAND, M. MANICAVASAGAM and G. VENGADESAN, for their unflinching support extended to me at the hour of need.

I express my sincere thanks to DR. N. NANDAGOPALAN, Lecturer, Department of Botany, National College, Tiruchirappalli, DR. S. Md. ANAS, DR. S. JANARDHANAN, MR. M. RAJA, P. U. M. RAGAVAN, Mrs. SHYAMLA, and Mrs. C. BINDU ROY, of the Department of Biotechnology, MR. R. KANNAN, J. KALIYAMURTHY, S. KANNAN, P. MURUGAIYAN, S. ARUN, R. THIRUMURUGAN, Department of Animal Science, MR. G. CHRISTOPHER, K. F. R. I., for their moral support and encouragement.

The boon of the association and precious helps rendered by friends and relatives formed the steps to claim up in this task and I express my deep sense of thanks to all of them.

I also extended my thanks and appreciation to MR. M. PIYARE JOHN of "ABCD COMPUTER CENTRE" and RVG Graphics a unit of GB Associates, Tiruchirappalli for the neat execution of the typographic works.