ACKNOWLEDGEMENTS

I express my profound sense of gratitude and indebtedness to my research supervisor, Dr. M. Balasundaran for his valuable guidance, constant encouragement and relentless support throughout the course of the study and for the preparation of the manuscript.

My sincere thanks to Dr. K.S.S. Nair, former Director and Dr. J.K. Sharma, Director, KFRI, for their constant support and for permitting me to use the laboratory facilities of this institute.

I am greatly privileged to acknowledge my sincere thanks and indebtedness to Dr. E.M. Muralidharan, for his valuable and constructive suggestions and criticisms during the early stages of my research work. I express my deep sense of gratitude to Dr. Ammini Joseph, Professor, Department of Environmental Studies, Cochin University of Science and Technology, for her timely help, good will and valuable suggestions. I wish to place on record my heartfelt thanks to Dr. R.V. Varma, Chairman, Ph.D. programme committee, whose kind and encouraging words were always a source of inspiration to me.

The assistance provided by the library staff, Kerala Forest Research Institute is gratefully acknowledged. My special appreciation to Dr. K.V. Sankaran, Dr. C. Mohanan, Dr. E.J. Maria Florence and Dr. S. Kumaraswamy for their encouragements and generous help. I extend my thanks to the officials
of the Forest Department of Kerala, Karnataka and Tamil Nadu for providing necessary help to collect sandal seeds from those states.

My sincere thanks to the Department of Biotechnology, Govt. of India, for a junior research fellowship and CSIR, Govt. of India, for a senior research fellowship.

Indeed I owe a lot to my friend Dr. Sunil Thomas for his untiring help, and moral encouragements. My profound thanks to Mr. P.V Pramod, Mr. Subash Kuriakose, Mr. K.H. Hussein, Mr. P.V. Santhoshkumar, Mr. C.M. Brijesh, Mr. M.A. Sreenivasan, Mr. N. Ratheesh, Ms. Binu. C. Nair and to all my friends in Pathology and Genetics Divisions for their timely help. I thankfully acknowledge Ms. C. Sunanda for her helpful suggestions in the statistical analysis and interpretation of the data. I am ever grateful to Shri. K.C. Joby for the pains he has taken to computerize my thesis with meticulous care.

I owe profound gratitude to my parents, brother, sister and in-laws, without their blessings, moral support and inspiring encouragement, I would not have come upto this level. I dedicate this thesis to my caring husband, for, without his selfless sacrifice, boundless patience and unflagging interest, this study would never have seen the light. And finally I thank GOD, just for everything.

T.B. Suma