ACKNOWLEDGEMENT

At the outset, I owe deep sense of gratitude towards my respectable teacher and research guide Dr. T.M. Patil who is imperturbable magnanimous and of lucent nature with syllogistic ability. This work is an outcome of his divine guidance and inspiring discussions. The words are indeed inadequate to express my gratitude and respect towards him.

I also carry my high sense of gratitude to Professor Dr. B.A.Hegde, Head, Department of Botany, Shivaji University, Kolhapur and Professor (Dr.) M.S. Patil, former Head of the Department for their constant encouragement and for providing all the research facilities in the Department.

I wish to express my sincere thanks to the authorities of the University Grants Commission, New Delhi and Shivaji University, Kolhapur for granting me Teacher Fellowship under the Faculty Improvement Programme.

I am very much thankful to all the faculty members of Botany Department for their kind co-operation and timely help in all respect.

I gratefully express my heavy debt of gratitude towards Shri Abhaykumar Salunkhe, Secretary, Swami Vivekanand Shikshan Sanstha, Kolhapur for giving me an opportunity to improve my qualification.

My sincere thanks also goes to National Research Center for Soybean (ICAR), Indore and University of Agriculture, Dharwad for providing recent literature and library facilities.

I am grateful to Prof. P.B. Chavan, Principal, S.M.Dr. Bapuji Salunkhe College, Miraj for granting me study leave and to Prof. R.O. Dhande, Head, Botany Department for inspiring me to complete the work.

I also take this opportunity to thank all my research colleagues in the Department for extending their help in completing this work. My special thanks are due to artist Shri M.R. Deshmukh for photography, Shri P.V.Ravan for tracing the graphs, Shri A.G.Gosavi for typing and Navarang Press for binding. I also acknowledge with thanks the kind co-operation and help rendered by all the non-teaching staff of the Botany Department.

Last but not the least I remain indebted to my beloved father and mother who have done their best to shape my career and brought me to this level. My deep sense of appreciation is also due to my wife Mrs. Rajashree who not only encouraged and inspired me but also kept me away from all the family worries, because of which I could complete this piece of work.

Date: 19/6/97 Plate: Kolhapur (S.A. Patil) Candidate