ACKNOWLEDGEMENTS

I would like to express my indebtedness and weighty respect to my guide Dr. U. N. Bhale for valuable guidance and timely inspiration. He has not only encouraged me during this work, but also gave suggestions to improve the quality of this study.

I thankfully acknowledge to Late Shivajiraoji Patil Babhalgaonkar, Founder Chairman, Balaghat Shikshan Sanstha, Naldurg, Shri. Madhukarraoji Chavan, Chairman, Balaghat Shikshan Sanstha, Naldurg and Cabinet Minister of Animal Husbandary, Dairy Development and Fisher, Government of Maharashtra, Shri. Narendraji Borgaonkar, Secretary, Balaghat Shikshan Sanstha, Naldurg and Shri. S. N. Alure Guruji, Executive Chairman, Balaghat Shikshan Sanstha, Naldurg for their valuable suggestion, moral support and encouragement for this research work.

I offer my genuine gratitude to Principal Dr. S. D. Peshwe for providing the necessary laboratory facilities for successful completion of this work. I am thankfully acknowledged to Vice Principal Prof. N. M. Makne, Dr. U. B. Chanshetti, Dr. S. S. Shinde, Prof. R. K. Dhokale, Dr. M. G. Babare, Dr. H. M. Mirza, and Prof. S. R. Mane for their moral support and encouragement. I thankfully acknowledge Mr. V. L. Chinchole Former Librarian and Mr. S. S. Shankarshetti for library facilities.

I am greatly acknowledged to Dr. B. F. Rodrigues, Professor, Botany Department, Goa University Goa, Prof. H. C. Lakshman, Botany Department, Karnataka University Dharwad, Dr. T. Muthukumar, Professor, Botany Department, Bhartiyar University Coimbtore, Tamilnadu, Dr. Neeraj, Feroze Gandhi College, Raebareli, Uttar Pradesh, Dr. D. R. Mane, The Registrar, Dr. Babasaheb Ambedkar Marathawada University Aurangabad, Dr. A. M. Chavan, Professor, Department of Botany and Controller of Examinations, Dr. Babasaheb Ambedkar Marathawada University Aurangabad, Dr. V. R. More,
Government College, Aurangabad, Mr. R. B. Kavathe, Former Head, Botany Department, R. P. College, Osmanabad for their timely suggestions.

My sincere gratitude to Prof. Yolande Delpe, Agriculture and Agri-Food, Canada and Dr. Fritz Ohel, The University of Basel, Switzerland for their cooperation in taxonomic work.

I am grateful to my research colleagues Dr. J. N. Rajkonda, Dr. P. P. Sarwade, Dr. Miss. V. S. Chatage and Dr. Miss. M. G. Ambuse for their cooperation and also thanks to laboratory staff Shri. Sharad Bagal, Shri. B. S. Shinde, Shri. K. V. Koli, Shri. M. L. Jadhav, Shri. L. G. Bele, Shri B. D. Bansod and Mr. Baburao Shinde. I am also thankful to all office staff members for their kind cooperation in various ways.

I sincerely thanks to Late. Gopabai Bhale, Shri. Narba Bhale and Mrs. Archana Bhale and Master Hiten Bhale for their whole hearted cooperation and their timely help in different ways during research work.

Last but not the least, I would like to express my gratitude to my family members Uma (Wife), Rishikesh (Son), Gajanan (Brother), Seema (Sister in Law), Abhishek (Nephew), Sakshi (Niece), Ujwalla (Sister) and Rajendra (Brother in law) for being a constant source of encouragement, inspiration and sustain which has been the driving force behind the successful completion of this research work.

Mr. Vijay Shamarao Sawant
RESPECTFULLY DEDICATED

TO

MY BELOVED PARENTS

SHRI. SHAMARAO PIRAJI SAWANT

AND

SOW. ANJANI SHAMARAO SAWANT