ACKNOWLEDGEMENTS

It is my first job to offer my most special acknowledgement and gratitude to my beloved guide, Prof. (Dr.) Anjali Sabale for her commitment to excellence and the highest professional standards, who devoted whole research work for giving something new, fresh and the experience never felt before. The research work is the outcome of her great efforts for continuous encouragement, valuable guidance and inspiring discussions.

I am very much thankful to Prof. (Dr.) G.B. Dixit, Head, Department of Botany, Shivaji University, Kolhapur for his constant and continuous encouragement and for providing necessary facilities to carry out research work.

I express profound regards and gratefulness to Prof. Dr. Manikrao Salunkhe, Vice-Chancellor, Shivaji University, Kolhapur. It is also my duty to express my great thanks to Dr. T. G. Jagtap, Dy. Director, National Institute of Oceonography, Goa for his constant encouragement, suggestions and moral support during my research.

I owe heavy debt of gratitude and indebtedness to Prof. (Dr.) P. D. Chavan, Prof. (Dr) B.A. Karadge, Prof. (Dr) S. S. Kamble, Prof. (Dr) S.R. Yadav, Dr. Meena Dongare, Dr. N.S. Chavan, Dr. D.K. Gaikwad, Dr. R.V. Gurav Dr. V. S. Rathod, and Dr. N.B. Gaikwad for their suggestions and cooperation.

I am also grateful to the Dr. P. B. Kale, Dr. S. K. Khade, Dr. P. D. Mane, Dr. A. N. Sadale and Dr. M. B. Mulimani, P. A. Hasabe, Jadhav, Patil, Anjali Mane for their affection, help and continuous encouragement for sharing their research respiratory. My deepest sense of gratitude is also for Prof. R. R. Sabale and Mr. Vishal Patil.

No one can undertake a work of this magnitude without a grateful deal of help. It would be ungracious if I would not express my deep sense of appreciation to my friends and to all who directly or indirectly helped me. I am very much thankful to Nivas Desai Rahul Mahamuni, Sunil Rathod, Shakil Shaikh, Vishal Aparadh, Nilesh Pawar, Sandip Pai, Mansingh Nimbalkar, Shital Chivalkar, Suprita Mote-Parshetty, Mrunal Desai, Priti Jadhav, Aruna Mali, Vandana Patil, Aruna Patil, Swati Patil, Uma Mali, Rani Gavali, Bhakti Pawar, Vishwajeet Mohite, Pravin Shinde (Physics), Jaykumar Chavan, Parthraj Kshirsagar, Umesh Pawar and to all who directly or indirectly helped me.

Thanks are due to Sandip Sawant, Shrikant Patil, Karmaveer Gena, Dushmant Maharana, Vikrant Kulkarni, Girish, Swaraj, Sabhya, Rubel, Priyo Bharta, Roshel, Smita Nagvekar, Prachi Sahani for the cooperation extended during the present work.

I am very much thankful to Dr. Fernandes Madam and Adake Madam for their kind cooperation. On the occasion of this I put on record thanks to non-teaching staff of Botany Department and Staff of CFC and USIC Shivaji University, Kolhapur.

It is my pleasure to acknowledge the unfailing support and steady encouragement that I received from my Nana, Kaku, Aai and Baba, Vinayak & Rahul, Shital Ghadage, Vandana, Ujwala, Rupali and Pise & Mali family. Without their help and support, this work would have not been possible.

Last but not least I express my great sense of gratitude to all my well wishers.

Navnath M. Pise.