Acknowledgement

It would not have been possible to write this doctoral thesis without the help and support of the kind people around me, to only some of whom it is possible to give particular mention here.

First and foremost I want to thank my research guide Dr. (Mrs.) M.A. Deodhar. It has been an honor to be her 7th Ph.D. student. She has taught me, both consciously and subconsciously, how good experimental research on algae can be done. I appreciate all her contributions of time, ideas and support to make my Ph.D. experience productive and stimulating. The joy and enthusiasm she has for research was contagious and motivational for me, even during tough times in the Ph.D. pursuit. I am also thankful for the excellent example she has provided as a successful woman Botanist and an eminent Professor.

I would like to thank ACC Cement Company and National Council for Cement and Building Material for funding my research work.

A special thanks to Dr. Arun Deodhar who enthusiastically did sampling of my algal cultures and photography of the locations, which was undisputed base for my work.

I would like to acknowledge Late Mr. G. D. Kelkar (Ex Chairman, Kelkar Education Trust) for providing excellent laboratory facilities which helped me to carry out research work uninterruptedly.

I am most grateful to Late Dr. M.R. Heble (Scientific Advisor, Kelkar Education Trust’s Scientific Research Center) and Dr. M.R. Kurup (Secretary, Kelkar Education Trust) for their constant encouragement and support.

I am extremely thankful to Dr. B. B. Sharma (Principal, Kelkar Education Trust’s, V. G. Vaze College) for his valuable cooperation.
I would like to acknowledge an encouragement given by Dr. S.S. Barve (Head, Dept. Of Botany), Dr. (Mrs.) B. P. Hardikar (Head, Dept. of Zoology) and the entire teaching and nonteaching staff of Biology department, Kelkar Education Trust’s, V.G. Vaze College for their unconditional support.

The characterization of the isolated algae would not be complete without the help of Dr. Bhupal Chaugule (Emeritus professor, Botany department, Pune University, Pune). I would like to thank him for his kind cooperation and help given for the identification of the microalgae.

The analytical aspect of this research would not have been possible without the valuable help rendered by Mr. Dilip Charegaonkar (M.D., Anchrom Enterprises, Mulund, Mumbai-400 081) and Mr. Thite (Manager, Anchrom Enterprises, Mulund, Mumbai-400 081).

A special thanks to my friends Mr. Jayesh Anerao and Ms. Anuja Kenekar. Working with them throughout the course was a memorable experience and joy. I would like to quote my special thanks to Mr. Ketan Thatte for the efforts he has taken for the proof reading task which made this manuscript flawless.

This word of thanks would not be complete without acknowledging the care, understanding, encouragement and support given by my well wishers and beloved people who are close to my heart.

Lastly, I would like to thank my family for all their love and encouragement and my parents who raised me with a love of science and supported me in all my pursuits. For the presence of my brothers Sanjay and Vijay and most of all, my loving, supportive, encouraging, and patient husband Deepak, whose faithful support throughout this Ph.D. is so appreciated. Thank you! I consider myself to be very lucky for the affection, care, understanding and support they
showered on me. It was because of my parents towering aspiration and blessings that I could achieve this herculean task.

I am thankful to God for the patience and strong will power given by him and all his almighty showered on me to make this research work successful.

Suvarna Santu Kaushlya Adak
June – 2012.