To those who made it possible....

To those who inspired, encouraged, supported and stood with faith I remain indebted. To Prof. (Dr.) V.N.Sivasankara Pillai who gave me the courage, opportunity and freedom to explore my ideas. Thank You, Sir, You have been supportive and patient with a research topic that initially did not seem to work and when it did, kept throwing up surprises! Your knowledge has always been a source of inspiration and I will try that I know, if not more, at least half as much as you do. From You, I have learnt both the Do's and Don’ts. These lessons that I learnt from you, will be of great help all my life. To my parents who gave me a dream, who believed that I could and who stood by me with faith and admiration. I guess I would not have been writing this page without them.

I thank Dr.N.Sridevi, Dept. of applied chemistry, C.U.S.A.T. for all her help and guidance rendered during the course of my research work. I shall always remember you for your patience, support and encouragement. In spite of being busy you have always given me the time to clarify my doubts. Thank You Madam!

I thank Dr. Ammini Joseph, Director, School of Environmental Studies for all her unconditional help and guidance through out my research tenure, particularly during my tryst with Daphnia and Chlorella.

I express my deepest sense of gratitude to Dr.A.Mohandas and Dr.I.S.Bright Singh whose attitude has taught me how one can be supportive and encouraging.
I thank Dr. Harindranathan Nair, Dr. Suguna Yashodharan and Dr. S. Rajathy for their help rendered during the course of my research.

I would like to use this opportunity to thank Dr. V.S. Achari who has been helpful with his suggestions during the course of this work.

I thank Dr. Rajalakshmi Subramaniam for her patience and her constant encouragement. Thank you madam for your patience in explaining things to me when I did not understand them. At times when situations were tough it was your support and encouragement that kept me going.

I thank Mr. H. Krishna Iyer for all the help rendered towards statistical Analysis of my data.

My lab mates I guess, these are the people who have seen me through the ups and downs. I have been lucky to have a bunch of caring people as my colleagues, not many are fortunate like me. They have always helped me in innumerable ways, be it a request or just silly queries, experiments, discussions or be it just a patient hearing when I needed to vent. Balu, Suja, Alex, Manu and Surekha have made Water Quality and Water Treatment laboratory, the wonderful place that it is. They have all taken keen interest in my work and their suggestions have been of great help. THANKS GUYS!

I thank all the members of CFDDM especially Jay Prakash, Anas, Ranjit K and Somnath Pai for the help rendered when I needed it the most. Thank you friends.

I thank all the research scholars of the Environmental biology and toxicology laboratory for being ever so willing to help me during my research.
The Directors office staff have been extremely helpful with all the paper work, especially since I always found it hard to figure out what needs to be done and when!

My friends they form my support system and have helped me smile! I owe much to them than words can express. Thank you all...

My family- I guess they just hopelessly love me and that explains their undying faith in me. My fathers confidence, my mothers constant support and encouragement and my brothers understanding nature have kept me afloat. It is with them that I have shared the excitement of small experiments, to the fathomless depression when things went out of my control. They believed and made me believe when I almost thought I couldn't. I don't want to belittle them by even trying to say THANK YOU. This thesis is dedicated to them.

Rajesh Babu V.G.