ACKNOWLEDGEMENTS

With a deep sense of satisfaction, I express my sincere gratitude and immense admiration to Dr. A.B. Wagh, Head, MCMRD for his valuable guidance and constructive criticism during the entire course of the thesis work. Without his constant persuance and encouragement, it would not have been possible for me to complete this work.

I am thankful to Dr. B.N. Desai, Director, National Institute of Oceanography, Goa and also to the former Directors Dr. V.V.R. Varadachari and Late Dr. H.N. Siddiquie for providing me the required facilities at the Institute. I also thank ONGC and CSIR, N.Delhi for providing me with funds (fellowships), which really enabled me to complete this work successfully.

I thank Dr. Joseph Royan and Dr. Sumitra Vijayaraghavan for their help and advice during various stages of my work. The help rendered by Shri Venkat K. and Ms. Ana Paula de Souza during the collection and analysis of my samples is gratefully acknowledged. I thank Dr. Anil A.C. (former member of this lab) for his encouragement during the initial stages of this work.
I gratefully acknowledge the various kinds of help rendered by my friends especially Shri R.T. Pillai, Pankajakshan T., George V. and Dr. T.V. Raveendran during the course of this study and preparation of the thesis.

I take this opportunity to thank my colleagues, Dr. V.P. Venugopal and Dr. L.K. Bhat (former members of this lab), Dr. N.B. Bhosle, Shri N.S. Prabhu, Shri V.M. Dhople (former member), Shri Shyam Naik, Ms. Prabha Devi, Ms. M. Sharma and Shri S.S. Sawant for various kinds of help and suggestions. I am also thankful to Shri Ravindranath Uchil for patiently tracing the figures. My thanks are also due to the staff of the Workshop, Printing and Binding Sections of the Institute for their help during the various stages of this thesis.

I express my deep sense of gratitude and prayers to my Mother, Chittamma and my wife Mrs. Sreekumari, who inspired me a lot in the successful completion of this work.