As noticed by author, it is his great pleasure to thank and indebtedness to those who were put forward their encouragement, help and heartworth support for the fullfillment of the present investigation for Ph.D., thesis.

I express my foremost sincere thank to my guide Dr. Shivanna, Reader, Department of Marine Geology, Mangalore University, for supervising this work. I thank him for the valuable suggestion, encouragement and support during the period of thesis work.

Sincerely, I wish to thank Dr. S. Sathyanarayan, Former Professor and Chairman, DOS in Geology, Manasagangotri, University of Mysore, for his encouragement and going through my manuscript. In addition, I extend my sincere thank to Miss. Poojya, Lecturer, Department of English.

It is my great pleasure to place on record my sincere thank to Dr. B. R. Raghavan, Co-ordinator of Geoinformatics and Reader, Department of Marine Geology, Mangalore University. I thank him for the extensive field work that he accompanied me on. In addition, his valuable suggestion, bystanding encouragement, lab facilities, goodworth thoughts and financial assistance are helped to carry out this work.

Mangalore University is sincerely acknowledgement for providing facilities in the ISRO sponsored Geoinformatics Lab to carry out this work. Also, I wish to thank Dr. C. Krishnaiah, Chairman, Department of Marine Geology, Mangalore University for providing facilities to do this research work.

Especially, I would like to express my sincere thank to Atomic Mineral Directorate for exploration and research (AMD), Department of
Atomic Energy, Government of India, for providing analytical permission and their time consisting chemical result to complete this investigation as such. Dr. Syed Zakaulla, Incharge Kaladgi Basin, AMD; Dr. A. K. Roy, Director, AMD, Bangalore; Director and Incharge-PMSG of AMD Hyderabad; Dr. N. Satyanarayan, Chemistry Laboratory, SR, AMD, Bangalore and Dr. L. K. Nanda, for their outstanding response and valuable advice.

Further, I wish to express my sincere gratitude to the Dr. Sreedhara Murthy, Former Professor and Chairman, Department of Marine Geology. Consultant, Karnataka State Remote Sensing Application Centre and also I wish to thank to the Director of KSR-SAC, Bangalore.

Sincerely, I wish to thank Prof. Mahesh Bilwa, Department of Geology, University of Mysore, for his help to making a thin sections and microphotographs of the rock samples during the research programme.

I extend my sincere gratitude to the Prof. Dharma Praksh, Dr. Nagalingappa, Dr. V. Ravindra Chary and Dr. K. Channabasappa, Mangalore University, for their trustworth encouragement and bystanding advice during the thesis work.

I thank my colleagues and friends; Mr. Sunil Kumar, B., Mr. Kumara Swamy, Mr. Natashekar, D., Mr. Ramakrishna Marati for their highly appreciative co-operation, support, help and most important of all your wishes.

Finally, I would like to thank my sister and in-law for their support during the thesis work and my parents for their encouragement and heartworth support throughout my career.

SINCERELY

Mr. JAYAPRAKASHA, M. C.