ACKNOWLEDGEMENTS

The author, with deep sense of gratitude, expresses his sincere regards to Dr. U. C. Singh, Head, School of Studies in Geology, Pt. Ravishanker Shukla University, Raipur, for his guidance during the course of research. The present work, at every stage bears the impression of his wise and concrete suggestions, carefully worded criticism and meticulous attention to minute details.

I express my heartfelt gratitude to Professor A. B. Dave, the Head, School of Studies in Geology, Pt. R. S. University, Raipur, who has kindled my interest in this applied aspect of geology which is going to be a valuable achievement in my career. Special acknowledgements are offered to him for his constructive criticism, suggestions and encouragement.

I am also indebted to Dr. N. P. Wadhwa, Professor and Head, Department of Applied Geology, Government Engineering College, Raipur, for his useful suggestions and constant encouragement.

My warmest thanks are due to Dr. M. L. Naik, Dr. G. B. K. S. Prasad, Dr. S. C. Naithani, School of Studies in Bio-Sciences, Pt. R. S. University, Raipur; Dr. S. C. Tiwari and Shri P. Prabhakar, Scientist's, CGWB, Raipur; and Shri V. P. Mishra and Shri N. K. Dutta, Senior Geologist's, GSI, Raipur, for their unstinting help at various stages.
Cordial thanks and due acknowledgements are extended to the Executive Engineer, Irrigation Department, Chhuhikhadani; Environment Management Department, Bhilai Steel Plant (SAIL), Bhilai; Director, Remote Sensing Application Centre, MAPCOST, Bhopal; Director, Maharashtra Remote Sensing Application Centre, Nagpur; for the permission to use their research laboratories.

I gratefully acknowledge the sense of understanding and timely support from my seniour colleagues, Dr M. W. Y. Khan, Dr D. P. Kuity and Dr S. K. Pande, as well as, the supporting staff of the School of Studies in Geology, Pt. R. S. University, Raipur.

The most significant acknowledgement, however, is due to my beloved Mother who shares my problems and accomplishments, and always remains a constant source of inspiration to me.

(Ninad Bodhankar)