

ACKNOWLEDGEMENTS

The author is deeply indebted to Dr. P.P. Patel, Reader Department of Geology, under whose able guidance the present studies were carried out. Without his sustained support and constant encouragement it would not have been possible for the author to complete the thesis.

The author is grateful to Prof. M.P. Patel and Prof. S.J. Desai for not only providing departmental facilities but also for taking interest in her work.

The author is indebted to Prof. S.S. Merh for his valuable guidance, suggestions, encouragement and for critically going through the manuscript.

She is thankful to Dr. L.S. Chamyal who took keen interest and provided valuable help at the various stages of her research work.

Special thanks are due to, Dr. N. Bhatt, Dr. V. Sridhar, Ms. Rachana Raj, and A. Khadkikar and for their help and assistance in many ways.

The author acknowledges the help received from the various Government organisations viz. CGWB, GWRDC, GWSSB, GERI, NWRDC and GSI. The personnel discussions and the data provided by the scientists of these organisations were very helpful.

The author will be failing in her duty if she does not thank Dr. K.C. Tiwari, Dr. N.L. Sharma, Dr. N.D. Desai, Dr. Ganpathi and Dr. A.V. Joshi from the Department of Geology for the suggestions, encouragement and moral support.

The author takes the opportunity to place on record her friend Ms. Sunita Arora for not only helping her but also for providing her moral support during the moments of despair and anxiety.

Sincere thanks to Mrs. Shantaben Patel (Dr. P.P. Patel's wife) who bestowed special affection during her Ph.D. work.

Last but not the least the author wishes to thank all the Research Scholars specially Jaychandran Nair of the department who gave the timely help. She would like to express her special thanks to Mr. Arvind Suthar and C.P. Mistry for the excellent drawing work.

Author would like to put on record the innumerable people in field, Government officials, Voluntary organisations who discussed the problems and gave their views and suggestions.

Finally author expresses gratefulness to her parents, brothers and sister for the support and affection. Without their constant encouragement and sacrifice during her research work it would not have been possible for her to complete the thesis.

ANANDI MEHRA