ACKNOWLEDGEMENTS

The author wishes to express his deep sense of gratitude to Dr. Pankaj K. Patel. Lecturer, Department of Geology, M.S. University of Baroda, under whose guidance and supervision the present investigation was conducted. Without his constant and unreserved inspiration, the author would not have been able to write this thesis.

The author would like to thank Prof. D.R. Gadekar, Head, and Prof. N.M. Vashi [former Head], Department of Geology, M.S. University of Baroda, for their constant encouragement.

The author is also thankful to Dr. S.R. Nayak and Mustak G. Saikh, Space Application Centre, ISRO, Ahmedabad, for their guidance in interpreting Satellite imageries. Special thanks are due to Mr. P.M. Dave, PHEL, Baroda, for his assistance in carrying out chemical analysis.

The author would also like to heartfully thank his colleagues, Mr. Arun Ojha, Mr. Chandrakant Patel and Dr. Sanjeev Vaid for their help during the tenure of research.

Special thanks are due to Mr. H. Patel of Red Dot Copy Centre, Baroda and Mr. S.K. Soni for their pain staking work in preparation and printing of the text of the thesis.

The author would also like to thank all friends, family members, and relatives for their co-operation during the period of research.

SHABBAR F. BARODAWALA