ACKNOWLEDGEMENT

The author wishes to express his deep sense of gratitude to Prof. S.S. Merh, FNA, FASC, for his guidance and constant encouragement. He will always very fondly cherish the love and affection bestowed on him by Prof. Merh, which have been a great source of inspiration to him throughout his studies. Without his kind help and supervision, it would not have been possible for the author to take up this study and to prepare this thesis.

He is grateful to Prof. N.M.Vashi, Head, Dept. of Geology, M.S.University, Baroda, for providing all facilities available in the department.

He also gratefully acknowledges the help by Prof. Vaidyanathan, of Andhra University by way of useful and critical discussions.

Sincere and grateful thanks are also due to Drs. S.P.H. Sychanthavong, L.S. Chamyal, K.C. Tiwari and Mr. Meherban Ardsheirian of the Department for their all round academic support and active participation at different stages in the preparation of this thesis.

The author would also like to thankfully acknowledge the variety of help which he received from all the staff members and research scholars of the Department.
The author shall be failing in his duty, if he does not express his most affectionate appreciation of the financial and emotional support provided by his brother Mr. Seyed Mohsain Alavi, and by his sister Mrs. Pooran Alavi, without which the author could not have completed his studies.

The sincere typing of this thesis by Mr. N. Nandakumar is also duly acknowledged.

(SEYED AHMAD ALAVI)