Acknowledgements

First and Foremost I would like to express my deep sense of gratitude for Prof. R. V. Karanth for his constant encouragement and all round support. Moreover, he has been instrumental in keeping up my motivation intact. The work would not have taken present shape without his patient and able guidance.

I would like to thank Prof. M. P. Patel who headed the department during a major period of this work for his kind support and extending the department facilities to me. I would also like to thank Prof. N. D. Desai for his kind help during his tenure as a head of the Department. Prof. P. P. Patel, the present head of the department would be fondly remembered for extending me all the kinds of help & support at the time of completion.

I always consider myself lucky for getting a chance to sit and discuss geological problems with Professor S. S. Merh. Through out the tenure of this work I have learnt many things from him, quite a few ideas were conceived through discussions at his place.

I thank him for his constant encouragement, advise and support through out this work. I will always remember all that he has done for me.

I thank Prof. K. S. Valdiya for his stimulating advice and discussion in the field, which went a long way in helping me to structure my ideas related to tectonics.

I shall never forget the support provided by Dr. Javed N. Malik. Most of the fieldwork was carried out jointly with him. I would always remember important tips and advises given by him throughout this work.

I would fondly remember Dr. D. A. Sant, whom I always use to irritate by disturbing him at any hour of the day. My interactions with him on the subject helped me to scrutinise my perceptions. I thank him for all the help and support.

I would like to extend special thanks to Dr. Anirudha S. Khadkikar for making me available his computer at the final stages of this work. It would have been much difficult for me to complete the work in time without his help.

This work would not have been possible without the help of my seniors Dr. George Mathew, Dr. V. Sidhar and Dr. Manish Mamtani.

I would also like to thank my friends Jignesh Patel and Sanjay Shah for all round support and help.

I thank all my teachers for always being approachable for any kind of help required by me.

I would also like to thank the help and support provided by non teaching staff of my department, I would gratefully appreciate Shri. Arvindbhai Dave for extending help during the field work. I would extend special thanks to B. Malek and Mukesh Parmar. I would like to appreciate the help given by Maheshbhai Patel, Ramesh Pawar, Ramesh Padaria, Ranjit, Sanjay Makwana, Surya, Jagdish Rana and Jagdish.

Many friends outside the department have helped me in their own special ways. I thank Hasit N. Patel, Vinay, Leena, Amit, Anurag, Birjoo and Sanjay (all at Baroda), Nitin

Macchar and Jaydeep (Kachchh), Tushar (Ahmedabad) from bottom of my heart for giving me a kind of support that is needed outside the world of Geology.

I would also like to thank people at Banni Guest House and Umed Bhavan for being kind enough to provide accomodation during the field visits.

Last but not the least I would like to thank my parents for making all this possible. I will be failing in my duty if I don't appreciate the help of my brother Ashish, who in my absence took most of responsibilities at home. I would also like to appreciate the support given by my cousins Amit and Sumit.

Parag S. Sohoni