ACKNOWLEDGMENT

I found place here to express my sincere gratitude to all who have accompanied and supported my PhD work to arrive at destination of submitting the thesis.

I would like to express my first sincere thanks to my supervisor, Dr. S. J. Sangode for setting up the research approach in me, his motivation and guidance throughout this research is one of the path that gives me direction for feature life. He taught me the field aspects on Sedimentology and Mineral magnetism. I am grateful to Prof. R.P. Tiwari Department of Geology, Mizoram University for immense help throughout this work. It was great pleasure to work with such dedicated person in the field of Geology. The Department of Science and Technology (DST), Government of India, vide DST Project No. ESS/16/254(2)/2005 is duly acknowledged for financial support without which the work was impossible. I worked in this project for over three and half years starting my doctoral assignment.

I express my sincere thanks to Prof. D.C. Meshram for all the encouragements, enlightening discussion and moral support throughout my stay in the department. I also extend my sincere thanks to the former Heads, Department of Geology for providing the necessary facilities and the required infrastructure without which it was difficult to conduct this work.

I express my sincere thanks Dr. S. K. Ghosh Scientist, Wadia Institute of Himalayan Geology, who taught me the fundamentals and application of Petrography. It was great pleasure to work with such renowned and experienced person in the field of petrography.

I express my sincere thanks to Dr. S. K. Patil, IIG Allahabad, for encouragement and help during the rock magnetic analysis. I am also thankful to Dr. Basawaiah, IIG Panvel, New Mumbai, for help during rock magnetic analysis.

I would like to express my thanks to Mr. S.S Gudadhe for his continuous help during the work and as a very good friend. I also like to specially acknowledge Dr. J. Malswama and Dr. P. Lalnunthluanga for their help during field, discussion and valuable suggestions without whom it was impossible to work in this terrain.
I would like to thank Dr. Kumaravel from Geological Survey of India and Mr. Rakesh Kumar from Wadia Institute of Himalayan Geology for helping me during the rock magnetic analysis. I am also thankful to Mr. Kapre and Mr. Shinde for their help during lab work mainly in petrographic analysis.

I feel pleasure to acknowledge my friends and colleagues Yogesh, Param, Santosh, Nilesh and many juniors and to all those supporting Teaching and Non-teaching staff of Department of Geology for many discussions, joyful moments and the last minute help that cannot be expressed in words.

Last but not least, I would like to express my deepest gratitude to my parents (Aai and Appa) to bring me up to this level of education in my life. I am grateful to my wife Kiran not only for giving me the unparallel support but to sacrifice a significant part of her life to support my research and to Avadhut (my son) for owing my duty as father. I am also thankful of Ingale family for their unending support.

Finally, I would like to take liberty to express my sincere thanks to all those who by some or the other way have been associated with for the completion of my work and whom I have forgotten to mention over here.

Mr. A.G. BADEKAR