ACKNOWLEDGEMENTS

Apologies first! I regret the mistakes I might have made. If I knew where they were, they would not have been there.

The present study has been possible with the help of several individuals, principal amongst them being Dr. A.M. Dave, (Manager, R&D, GSFC) who guided me through the long years, chanelling the study towards meaningful and a logical conclusion. His thoughtfulness and indepth research background helped me achieve my targets. Thanks are also due to Prof. A.C. Shah (co-Guide, Head, Chemistry Department, Faculty of Science, the M.S. University), who provided me with the moral and technical support necessary for this study. His cooperative and understanding nature made it possible for me to realise these lofty targets.

I am extremely thankful to Dr. M.H. Mehta, Executive Director, GSFC, for providing encouragement with intellectual and infrastructural support. Thanks are also due to the management of GSFC for providing me with a research scholarship as well as the permission to use the laboratories and other facilities.

I am thankful to the staff of R&D, GSFC and the Chemistry Department, M.S. University, for their encouragement and moral support. My parents Varshaben and Hemantbhai and my wife Preeti, lost the most while I gained in this study and I am thankful to them for their unfailing support and encouragement.
My friends Atul, Beena, Veena, Shailesh, Mukesh, Hitesh, Rakesh and all research students of Chemistry Department were a constant source of encouragement and thanks are due to them. I also would like to place on record, the cooperation I received from Prashant and Vijay of 'Saumyas Computers' in processing this thesis.

Ujval Vaishnav