ACKNOWLEDGEMENT

"The expressivity of words looses significance when we search for an appealing sentence of gratitude and obligation, since ACKNOWLEDGEMENT is only part of dissertation that lacks guidance"

I take this privilege and pleasure to acknowledge the contributions of many individuals who have been inspirational and supportive throughout my work undertaken and endowed with most precious knowledge, to see success in my endeavor. My work bears the imprint of all these people, I am grateful to.

The first person I would like to express my deep sense of gratitude and special thanks to my respected research guide Prof. (Mrs.) Krutika K. Sawant. I must humbly acknowledge for her unflagging encouragement, invaluable suggestions and guidance which provided a good basis and strong foundation for the present thesis. Her wide knowledge, logical way of thinking, vision and perception of the uncommon will always continue to strive me towards perfection.

It is with deep humbleness, I wish my sincere thanks to Prof. A N Misra, Professor and Head
- Pharmacy Department, and to Prof. M. R. Yadav, Former Coordinator, G. H. Patel
Building, Pharmacy Department for extending all the facilities during the present study.

No words can express gratefulness of Dr. R. S. R. Murthy, Professor of Pharmaceutics; Dr. S. H. Mishra, Professor of Pharmacognosy; Dr. R. Balraman, Professor of Pharmacology; Dr. (Mrs.) S. J. Rajput, Professor of Pharmaceutical Quality Assurance, Dr. (Ms.) R. C. Mashru, Pharmaceutical Quality Assurance, Dr. (Mrs.) R. Giridhar for their valuable support during the research work.

I take this opportunity to express my thanks to non-teaching staff members at Pharmacy department, kalabhavan and Pharmacy department, G. H. Patel Building for their kind cooperation.

I shall be failing in my duties if I do not acknowledge Mr. Bhagya and Mr. Parmar, FDA, Baroda for providing necessary facility to carry out animal studies, Dr. Dhruti Shah, INDU Blood Bank for providing blood and plasma samples, Dr. M. N. Patel and Dr. Vandana Rao, Metallurgy Dept., for SEM studies. I owe my sincere gratitude to Mr. Manoj Shah for providing tablet punches, Mr. Bharatbhai, Textile Dept., for tensile strength study, Mr. Swapnil – Baroda Pathology Lab for microscopy and biochemical analysis. These peoples have substantially contributed to the development of this work.

A note of this kind cannot end without a word of appreciation and thankfulness to my colleagues Vijay Ahire, Munish, Anil, Sham, Khushwant, Sanjay and all the Pharma and nonpharma Dr. V. S. Hall residents for their cheerful company, many helpful discussions

during the work. My sincere thanks to all the mentors and well wishers who helped me in their own way.

Doing a PhD is one of the best decisions of my life. Additional energy and vitality for this research was provided externally through my dear friends Yogesh, Devendra, Punit and Mahavir. It is impossible to forget stimulating best wishes, whole hearted support, affection and constant encouragement of these people. I would like to give a special note of attention for my dear friends Nilesh, Mehul, Ravi, Indrajeet, Yogesh, Ishaque and Soumya for their gesture of true friendship.

It is with immense pleasure, I express my sincere thanks to Mr. Bharatrajan, Head, Mr. Kamalakar Talasila, Group leader and Mr. Hemant Narkhede, Team Leader of Formulation Development - SANDOZ Pvt. Ltd.

This momentous work could not have seen the light of day without my parents. Driving force behind all this are my brothers Suresh, Mohan, Maruti, Purshottam and Janardan; my sister in laws. I am specially grateful to them for their moral support, which has been always unshared and showered upon me at all walks of life. May I be worthy of their cause and response. I am very grateful to my wife Sucheta, for her love and patience during this period. The chain of my gratitude would be definitely incomplete if I would forget to thank the first cause of this chain, using Aristotle's words, The Prime Mover-God. My deepest and sincere gratitude for inspiring and guiding this humble being.

Thankful I ever remain....

Finally it is inevitable in this project, that omissions, occasional errors and lapses in the accuracy of interpretations might have escaped detection. I hope that any mistakes are minor and minimum and I accept the full and exclusive responsibility for them.

Pramod Yedurkar

Vadodara

18th October 2007