Acknowledgement

It is moment of gratification and pride to look back with a sense of contentment at the long traveled path, to be able to recapture some of the fine moments, to be think of the infinite number of people, some who were with me from the beginning, some who joined me at different stages during this journey, whose kindness, love and blessings has brought me to this day. I wish to thank each of them from the bottom of my heart.

First and foremost, I am extremely thankful to the almighty god for making me capable of doing all that I propose, the work leading to my Ph. D. thesis submission is one of them.

At the outset, I would like to extol Dr. Y. T. Naliapara for his advise during my doctoral research endeavor during the yester years. As my supervisor, he constantly forced me to remain focused on achieving my goal. His observation and comments helped me to establish the overall direction of the research and to move forward expeditiously with investigation in depth. I thank him for providing me the opportunity to work with numerous local and global peers. I wish to thanks to all my teachers of this department. I owe a great deal to Prof. V. H. shah, Professor and Head, Department of Chemistry, for providing me necessary facilities. I also thanks to all faculty of department namely, Prof. Anamik Shah, Dr. P. H. Parsania, Prof. H. S. Joshi, Prof. Shipra Baluja, Dr Ranjan Khunt, Dr M. K. Shah and Dr U. C. Bhoya, Mr. Ranjeet bhai for their encouragement and help.

From bottom of heart I especially thanks to my seniors Dr. Anil S. Patel, Dr. Naval P. Kapuriya, Dr. Sagar Gami, Dr. Vipul Audichya, Dr. Piyush Pipaliya, Dr. Mahesh Savant, Dr. Chirag Bhuva and Dr. Akshay Pansuriyafort their selfless help, moral support and guidance during my Ph. D. work. I heartily express special thanks to my colleagues, Prof. Satish Ghelani, Dr. Hashmukh, Dr. Kapil Bhesaniya, Dr. Kalpesh, Dr. Devang, Dr. Haresh, Mr. Jaydeep, Mr. Radadia, Mr. Gautam, Mr. Kishor for their kind help and support.

I am thankful to the “National Facility for Drug Discovery” Saurashtra University, Rajkot for NMR spectra. I am also thankful to I
am very much thankful to Paras Vekariya and Bhola Gaurav for Mass analysis.

I offer my gratitude to my friends, Yogesh, Nayan, Himanshu, Rajesh, Viral, Pankaj, Pratik, Chirag, Bhavin, Chintan, Bharat, Denish, Mitesh, Mayank, Khushal, Kishor, J.V. Patel, Jignesh, Dr. Gaurang, Pankaj Chovatiya, Ravan, Pashvanand all the Ph.D. students for their fruitful discussion at various stages.

Dhansukh Bhandari