ACKNOWLEDGEMENT

Submission of thesis is indeed a very special occasion for me to express my sincere regards and heartfelt appreciation to all those who made possible this thesis a reality.

First and foremost, I am profoundly and everlastingly grateful to my academic supervisor, Dr. Pranav S. Shrivastav, Associate Professor, Chemistry Department, School of Sciences, Ahmedabad for his valuable guidance, positive approach, inspiration, patience and enduring leniency through out the course of my work, providing a major momentum which has successfully led me to the completion of this work.

It is my privilege to acknowledge Prof. S.K. Menon, Head, Chemistry Department and Prof. U.C. Pande, former Head, Chemistry Department, for their encouragement and support during my tenure. The teaching and non teaching staff of Chemistry Department, Gujarat University, deserves a special mention for their kind cooperation and concern.

I wish to put on record my sincere gratitude to my senior and friend, Dr. Mitesh H. Patel, whose diligent support and willingness to share his wisdom were very fruitful for shaping up my ideas and research. His critical insights enriched the overall presentation of the work for which I shall always remain indebted to him. Those long sessions at the computer at his residence shall never be forgotten. I would always like to acknowledge my comrades Dr. Deepak S. Jain, Dr. Hiren N. Mistri, Dr. Bhavin N. Patel, Mr. Francis Christy, Mr. Daxesh Patel and Mr. Primal Sharma for their encouragement and the fun we had in the last four years.

Words fall short to express my profound gratitude to my Mummy & Pappa, who have been role models of my life in showing me the path of perseverance & my Wife, Brother and Children - Honey and Megh, the pillars of my strength. On the same note, I would record all my appreciation to Mrs. Mallika Shrivastav for her care and motivation during the entire phase of research with Dr. Pranav Shrivastav. A special gesture of gratitude for Kaustubh whose unspoken consent enabled my guide to work without hassles.

Vijaykumar B. Patel