Acknowledgement

All my homage and designated emotions to the lord almighty whose blessings promote me to accomplish this interesting task.

I wish to express my deep sense of gratitude to my mentor Dr. N. B. Patel (Professor, Department of Chemistry, Veer Narmad South Gujarat University, Surat) who has inspired me with keen interest and ever vigilant guidance without which this task could not have been achieved. He has not only guided me but also acted as a co-traveller throughout my research work. It is the result of his unfailing efforts and meticulous training that today I have reached to my destination. I am also thankful to Madam Dhaval and Keval for their familiar behavior with me.

I would like to thank Head Dr. P. Bahadur and former Head Dr. K.R. Desai, Department of Chemistry, Veer Narmad South Gujarat University, Surat for providing me necessary facilities. I am thankful to teaching and non-teaching staff of the department for rendering every kind of help. I am thankful to the librarian of Veer Narmad South Gujarat University, Surat for providing me the library facilities. I wish to thank S.A.I.F., Chandigarh for Spectral analysis and D. Rajani, Microcare Laboratory, Surat for screening of antimicrobial and anti tubercular activities.

I am unable to find words to express my feelings of acknowledging the tremendous debt that I owe to my loving father Mr. Natvarbhai K. Patel and mother Mrs. Vasuben N. Patel without whom my existence on this earth can not possible. It is only because of their blessings, untiring encouragement and inspiration that I have been able to steer through the stress and strains of this work.
I must acknowledge the great sacrifice and encouragement of my loving wife Mrs. Chetna J. Patel, my brother-in-law Hiren Patel and their family during my entire research work. How can I forget the love of my sweet daughters Disha and Fairy at this moment?

I am also thankful to my brother Amit, his wife Dimple and my loving nephew Meet who are always with me.

I express my sincere thanks to Shree Vikrambhai Brahmbhatt the principal of C. B. Bhandari Saraswati Vidhyabhavan, Magdalla, Shree Devangbhai Desai the principal of R. S. M. Poonawala sarvajanik experimental school and Staff members of both the schools, who provided me the moral support that I needed to carry out my research work.

My special thanks to Asif Shaikh & Sarvil Patel who have given his precious help during the course of my study.

I obliged to mention the names of my research colleagues Dr. Sandip Modi, Dr. Ashok K. Patel, Dr. Ashok L. Patel, Dr. Virendra Patel, Dr. Jaymin Patel, Dr. Hemant Patel, Dr. Satish More, Dr. Kunal Pathak, Faiyaz, Imran, Sabir, Amit, Minesh, Yogesh & Rakesh, for their co-operation & kind support. I am also thankful to my all research fellow of department.

Last but not least, I would like to share my deep feeling to my grandparents Late Khushalbhai and Late Bhuliben.

(Jignesh N. Patel)