

## **ACKNOWLEDGEMENTS**

*This thesis is the result of the work whereby I have been accompanied and supported by many people. The work presented in this thesis could not have been accomplished without the help of several individuals. At the end of my thesis, it is a pleasant task to express my gratitude to all those who contributed in many ways to the success of this study and made it an unforgettable experience for me.*

*First and foremost I wish to express my deepest gratitude to my Research Supervisor, **Dr. Amar Ballabh**, for providing me an opportunity to execute my research work under his supervision and strong leadership. This work would not have been possible without his guidance; support and encouragement. My special words of thanks should also go to him, for always being so kind and helpful. I warmly thank him for his valuable advice and his extensive discussions about the research work.*

*I would like to acknowledge **Prof. N. D. Kulkarni**, Head and **Prof. B. V. Kamath**, former Head, Department of Chemistry, Faculty of Science, The M. S. University of Baroda, for providing necessary facilities and constant support throughout my research work.*

*I wish to express my gratitude to **Dr. Hemant Soni** and **Dr. Sanjeev Kumar** for their valuable suggestions and constant encouragement throughout the process of my research. I am also thankful to all the teachers of Department of Chemistry for their support whenever needed.*

*I must thank **Bhavsar Bhai**, **Rane Bhai**, **Kalpesh Bhai**, **Makwana Bhai**, **Nagarkar Bhai** and all the other nonteaching staff of Chemistry department for their innumerable help. A special word of gratefulness to **Mrs. Revathi Ganesh**, for helping me with several official matters.*

*I take this opportunity to sincerely acknowledge **UGC-RFSMS** fellowship for providing financial assistance which buttressed me to perform my work comfortably.*

*I would like to thank all the teacher incharge of the different instruments for their support, especially **Prof. S. R. Shah** for NMR facility. I also wish to thank to all the instrument operators for their help.*

*A special mention of thanks to my friends **Ekta Shah, Namarta, Harha and Varsha** for their encouragement, help and support in the process of my research. I am also thankful to my other colleagues **Arti, Nishant, Umesh, Sanjay Yadav, Harnish, Komal, Harish bhai , Akeel bhai, Anju, Krupa, Shyam, Aditya, Nilesh jain, Rama, Vishwnath, Jigar, Ms.Ageetha, Mohini, Rahul, Ankita, Ishani, Hemant, Sanjay** for their support.*

*I would like to pay high regards to my parents for being the best teachers of my life. I am grateful to my father, **Mr.Parsottam Yadav** for his infallible support which has always been my strength. I owe my deepest gratitude to **my mother** who has been a source of encouragement and inspiration to me throughout my life. It would be ungrateful on my part if I thank them in these few words.*

*A special thanks to my sisters **Sushma and Roma**, and my Brother **Jayal** for their unconditional love and care. I thank them for being a persistent source of support. My adorable niece **Maisha** deserves wholehearted thanks as well, for her affection.*

*I owe my deepest gratitude towards my husband, **Mr. Puran singh Rathore**, for his eternal support and understanding of my goals and aspirations. He deserves a special note of thanks for his valuable suggestions during my research and foremost for his invaluable companionship.*

*My heart felt regard goes to my father in law, mother in law, sister in law, **Anjana** and brother in law, **Kuldeep**, for their love and moral support.*

*(Priyanka P. Yadav)*