ACKNOWLEDGEMENTS

I owe debt to the God, the Almighty, for his showers of blessings throughout my research work.

First and foremost, I would like to express my sincere gratitude to my Ph.D. supervisor **Prof.** *Aruna G. Joshi* for her guidance, motivation and support. She has always been given untiring interest throughout the pursuit of the research in providing valuable suggestions. Besides this she always been kind hearted and soft spoken with me during entire journey.

I extent my sincere thanks to **Prof. G. Sandhya Kiran**, Ex-Head of the Department for allowing me to join for Ph.D. and appointed me as JRF in her project. She always encouraged me and provided intuitive comments regarding research.

Prof. N.S.R. Krishnayya, Head of the Department, for providing laboratory facilities in the Department.

I would also like to acknowledge **Prof. Vinay Raole**, who allowed me to carry out the Departmental Ph.D. coursework under his guidance and helped me in publishing paper.

Dr. Manish Nivsarkar, Director of PERD Centre for permitting me to carryout works at their institute. I am extremely thankful to **Dr. Neeta Shrivastava**, Assistant Director, B.V. Patel Pharmaceutical Education and Research Development (PERD) Centre, Ahmedabad. Her constructive advice, enthusiasm and immense knowledge helped me a lot in my research work.

Dr. Anshu Srivastava and **Dr. Sonal Sharma** for sparing their valuable time to train me for instruments and analysis at PERD Centre. All the research scholars of **Pharmacognosy and Phytochemistry Lab** of PERD Centre were always helpful.

I am also thankful to **Dr. Gaurav Sindhav**, Department of Zoology and Biomedical technology, Gujarat University for allowing me to do HPTLC analysis in his laboratory. **Ms. Hafza Ansari** for all her support and help I needed at their place.

Needless thank to my M.Sc. dissertation guide **Prof. R. Krishnamurthy**, Director of C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Surat. He taught me basics of plant tissue culture and also directed me to choose a good institution for further research.

I acknowledge the **Ministry of Environment and Forest (MoEF)**, New Delhi, India, for their financial support throughout my research work that helped me to perform my work comfortably.

Dr. Ashutosh Pathak, I thank you immensely for all that I learned from you. He always inspired me to do a good research and for that he has supported me and helped me in all possible manners.

My lab seniors, **Dr. Archna Srivastava**, **Dr. Darshini Trivedi** and junior **Ms. Anjali Trivedi** were always with me during research.

I am also thankful to all the **non-teaching staff** of the department for helping in different tasks.

My friend **Roma** who has been source of inspiration for research and supported me when I in need. A special thanks to my friends **Nachiket** and **Nidhi** for always encouraging and keep in touch with me throughout the journey.

My heartfelt thanks to **Minaxi**, for being my sister, friend and making your place a second home for me. My roommates **Dhruti, Pragya** and **Pooja** for cheering and relaxing me after busy and tiring day.

Last but not least, my vocabulary falls short of words to express my deep sense of gratitude to **my parents** for their positive attitude, infinity love, silent prayers and blessings which made me strong enough to conquer all the battles in life. I am also thankful to my **elder sister** and **jiju** for their care and support.

Swati Patel