ACKNOWLEDGEMENT

The writing of this dissertation has been an incredible journey and a monumental milestone in my academic life. I could not have embarked on this expedition and travelled this far without the passionate and continued support of my Research Supervisors, advisors, colleagues, friends and family. It has certainly shaped me as a person and has led me to where I am now.

It is difficult to overstate my gratitude and indebtedness to my mentor and Research Supervisor Prof. S. Vidyadhara, Principal, Chebrolu Hanumaiah Institute of Pharmaceutical Sciences, Guntur. For the inspiration, constant encouragement for inquisitiveness in research endeavours and affection throughout the course of my investigation. I am thankful to him for instilling confidence in me to tackle problems of varied nature that surfaced during this research project. His extraordinary enthusiasm, relaxed demeanour, lot of constant oasis of ideas and his diverse skills have made a deep impression on me.

It is my pleasant duty to convey my sincere regards to Dr A. Prameela Rani, Principal, Dept. of Pharmaceutical sciences, Acharya Nagarjuna University, Guntur and other faculty members, non teaching staff of Dept. of Pharmaceutical sciences, Acharya Nagarjuna University, Guntur for their co-operation and timely help.

It is a pleasure at this point, to pay my allegiance and words fail me to express my appreciation to my friend, Dr. Ganji Ramana Reddy., Ph.D., Izent Pharmaceutical Ltd, Hyderabad, Dr. K. V. Raghavendrarao garu, Chadra shekar Panchagnula, Anitha.Ch, Ravi Pratap Pulla, Chandra sekar rao Baru, for the way he helped me instantly whenever required, whether it was any glitch in selection of various formulated matrices or in the method development and validation, or even getting hands on some vital original research papers,
which I actually needed, essentially at that point of time. I am grateful for his valuable time offered to me, frequently for the wonderful technical discussions on research and the academic resources, in person as well as on the phone. His contribution has made a backbone of this research. His involvement with his originality in research has triggered and nourished my intellectual maturity that I will benefit it from him, for a long time to come.

I convey my regards to my nears and dears,

Where would I be without my family? I am ever indebted to my parents for their unflagging love. They deserve a special mention for their constant support and prayers. My loving Mother Mrs. Sailaja Ganta and my dear Father Mr. Sambasiva rao Ganta in the first place are the persons who rooted the fundamentals of my character, showing me the joy of intellectual pursuit ever since I was a child and raising me earnestly with their caring, gentle love and sacrifices along with my ever supportive and caring siblings, Mr. Venkat Kishore Ganta and family and Mrs. Madhuri Ganta and Krishita Sri Ganta. Their vision and practicality were always in balance.

Finally, I accolade my highest respect, gratitude and a mammoth thanks to my beloved wife Vasavi Devi Ganta, my parents-in-law and their families for their love, patience and moral support and unwavering belief in me for enabling me to complete this long dissertation journey. This extraordinary voyage would certainly have been less colourful if not for the engaging and heart warming time spent with my two fabulous son-Sai Hemanth and Daughter-Harshita Sri. They have reenergized and given me a much needed reprieve from work.

They have left an impression and imprinted infinite wonderful memories on my heart. They have certainly blessed my life with a pacified happiness in which I could freely pursue my dreams and have the courage to surmount higher scales. They mean the world to me. Before I finish, I offer my regards and optimistic attitude to all of those people who
supported me and offered me, their gracious help in any respect during the completion of the research work. With my sincere apology, if I was not being able to mention them all individually.

And last but not the least, my unlimited thanks to near and dear for which doctoral studies in my pharmacy would have remained a lifetime dream to me. I finish with a final silence of gratitude for my life.

Above all, thanks be to my Lord for my life through all tests in the past five years. You have made my life more bountiful. May your name be exalted, honoured and glorified.

Srinivas Ganta