ACKNOWLEDGEMENTS

First and above all, I admire God, the almighty for providing me this opportunity and granting me the capability to proceed successfully. As thesis seems to acquire this final form, my memories unreel in my mind reminding me of the up’s and down’s confronted during these years. I learned that only way we are going to get anywhere in life is to work hard. Problems can become opportunities when the right people come together. I found out that right people and this is the correct time to say my thanks to those right people. So this is not just the formal thanking, but the deep gratitude, which comes from my heart.

First and foremost I would like to express my deepest appreciation and profound gratitude to my supervisor Dr. Bharat Bhusan Subudhi, Associate professor, School of Pharmaceutical Sciences, SOA University for accepting me as a Ph.D. student; you have been a tremendous mentor for me. I would like to thank for your warm encouragement, thoughtful guidance, critical comments, and correction of the thesis. Your advice and supports have been priceless.

I sincerely acknowledge with a deep sense of my gratitude towards Prof. Amit Roy, Principal, Columbia Institute of Pharmacy, Raipur for providing me the necessary facilities for carrying out my research work. Support and help bestowed upon me by my seniors and colleague Dr. Ravindra Pandey, Dr. Shiv Shankar Shukla, Dr. S. Prakash Rao, Mr. Surendra Saraf and Dr. Rishi Paliwal will always be remembered.

I am grateful to Dr. Anil Kumar Mishra Director, Cyclotron department, Institute of Nuclear Medicine and Allied Sciences (INMAS), DRDO, Delhi and Krishna Chuttani Mam for providing me the facilities and help for Bio-distribution and Scintigraphy Study.

I would like to thank Institutional Animal Ethical Committee, PBRI, Bhopal and Columbia Institute of Pharmacy for permission of in vivo studies. I also thanks to Dr. Manvendra Singh Dr. Trilochan Satpaty for their support during animal study.

I record my thanks to Dr. Rana, National Centre of Communicable Disease, Delhi for providing me animals within short period of time.

I also acknowledge Mr Avtar Singh and Mr. Manish, SAIF, Panjab University, Chandigarh for their help in spectroscopic analysis of sample.

I would like to thank Mr. Pradhan, Indian Association for cultivation of Science (IACS), JadHAVpur, Calcutta for their help in CHN analysis.

I would also like to thanks all the non-teaching staff specially L.R Chandrakar, A Hasan, Mishri lal Sahu Dashru Dewangan, Arvind Shukla, Jagesh Verma and Chinta.
How can I target the tender love and care of my juniors Praveen Nayak, Vikash Sharma, Aditya Singh Thakur, Parag Jain whose innocent smile and silent support always helped me.

I would also like to thank my new little junior friends Shakti, Arindam and Subham who supported me during writing, and incented me to strive towards my goal.

A special word of thank to my distant friends Rakesh Rai, Venkat Rao, Jeet Singh, Vinod, Kanahiya, Vicky and Gappu.

I would like to thank my younger sister Kajal, Vikash Singh and Dr. Pawan Singh, Raghvendra Singh, Ranu, Bablu, Banti, Mantu, Dablu, Soni, Gudiya, choti and jishu because they are God's reward to me for all of my hard work and effort.

A special thanks to my family. Words cannot express how grateful I am to my mother, father, my mother-in-law, father-in-law, for all of the sacrifices that you've made on my behalf. Your prayer for me was what sustained me thus far.

At the end I would like express appreciation to my beloved wife Veena my sona, who spent sleepless nights and was always my support in the moments when there was no one to answer my queries.

I want to express my gratitude and deepest appreciation to my lovely daughter sweet angel ICY for her great patience, understandings to stay away from her Mamma and Papa and support to finish their task.

OM SAI RAM

Vijay Kumar Singh