## AKNOWLEDGEMENT

First of all, my salutation to lord Shiva, the reigning deity of holy city Kashi, for making my sojourn fruitful. I bow my head to Mahamana Pandit Madan Mohan Malviya jee, founder of this legendary Banaras Hindu University, living in his abode I always felt a sense of holiness. The Banaras Hindu University is Pandit Malaviyajee's crowning achievement. It is a stupendous monument, to his peculiar genius, his piety, and his audacity in conception and his persistence in execution. This university symbolizes Malaviyajee's respect for the past, confidence in the present and hope for the future generation of mother India.

It is a matter of great joy to express my feelings of gratitude to my supervisor **Sushil Kumar Singh**, **Professor & Head**, **Department of Pharmaceutics**. It has been an honor to be his Ph.D. student. He not only taught me both consciously and unconsciously nuances of medicinal chemistry but even mundane stuff like how to put pin in papers so it did not hurt anyone. I love and respect his exquisite courtesy. Such courtesy is the flower of a fine mind and a kindly spirit. I appreciate all his contributions of time, ideas, and funding to make my Ph.D. experience productive and stimulating. He is a man of courage, conviction, utter humility and an able administrator. Full of compassion, he has been a constant source of inspiration to his pupils and other younger scholars of Department. His qualities of head and heart make him a truly adorable man. The joy and enthusiasm he has for his research was contagious and motivational for me. I have received so much love and affection from him during my Doctoral research endeavors that nothing that I can do can repay even a small fraction of it, and indeed there can be no repayment of so precious a thing as affection. There is no innocent sin which I have not committed, but still there is no end of Grace I have received from the master.

I am grateful to my Research Progress Committee members (RPC) for their valuable suggestions.

I am also thankful to Prof. B. Mishra, Prof. S. Singh, Prof. S. Srivastava and all other faculty members of the Department for their encouragement and support during my research work.

I extend my gratitude to all non teaching staff of the Department.

I am indebted to unflinching support and motivation I received from Dr. Ashok Kumar, Research Associate of this Department.

I would like to thank Prof. Gopal Nath and Dr. Ragini Tilak of the Department of Microbiology, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, for allowing me to work in their labs for antimicrobial activities of my synthesized compounds.

I am grateful to Renata Cristina de Paula and Maria Fernanda A Nascimento of university Rio de Janeiro of Brazil for conducting my *in vitro* antimalarial assay.

I am obliged to the Head, Department of Chemistry, Faculty of Science, Banaras Hindu University (BHU), and Varanasi, India for <sup>1</sup>H and <sup>13</sup>C NMR spectroscopic analysis. I am thankful to Director, CDRI, Lucknow for mass spectrometry analysis. The financial support given to me in the form of Junior research fellowship (JRF) by National Medicinal Plant board (NMPB), Senior research fellowship (SRF) by University Grants Commission (UGC), New Delhi and Teaching assistantship by IIT (BHU) is gratefully acknowledged.

I owe a great sense of gratitude to my teachers from my previous colleges. Prof. N. Udupa and his wife Vijaylakshmi Udupa, Sureshwar Pandey, M.K Unnikrishnan, P.V.R Chaudhary and Vardraj Bhat from Manipal University for their encouragement.

The company of good people is the treasury of all virtues. I salute them with affection, and with words. I must thank Philip Lutgendrof, Professor of Hindi and Modern Indian Studies at the University of Iowa,USA for rekindling the pleasure of reading and reciting Ramcharitmanas and introducing me to His Royal Highness C.P.N Singh an inspiring example of connoisseurship mingled with devotion, a noble soul and true rasik of Ramcharitmanas. His lucid interpretation of old classic scriptures left me spell bound and who generously shared with me his rich knowledge and experience of the Ramnagar Ramlila.

At this juncture of time I miss my beloved friend Praveen without his help I would not have survived in this materlistic world. He is still alive in my thoughts. His unconditional support has been essential all these years. I am not sure I would have done my Doctorate without his encouragement.I miss my friend Mohammad Amir sahib, a sculptor, palmist par excellence and clairvoyant from temple town of Udupi whose calculations about my life hardly went wrong.

I will always be indebted to cult of Aghora and Tantrik from Nepal, Ujjain, Banaras and Udupi Baba Kinaram jee, a mystic ascetic and founding father of Aghora in kashi has answered my prayers during nadir phase of my life.

I have been attached to rivers the Punpun and the Sonbhadra, ever since my childhood and, as I have grown older, this attachment has also grown. I have watched varying moods of rivers like Shipra, Narmada, Matysagandha and Netravati in my youthful days in Indore, Ujjain and Manipal. In Banaras during melancholy I spent few hours at serene bank of The Ganga, near shultankeshawar and it rejuvenated me with new vigor every time I visited. I would like to express my special appreciation and thanks to my well wishers from politics and bureaucracy for trying to make my life frictionless especially my bosom friend Sukhram Jhakhad Bishnoi to whom I will remain indebted.

I have special friends to thank, going back to my pre-BHU days. Md. Ziyauddin, Raushan, Anoop, Sunil, Vijay, Piyush, satyakam. My time at BHU was made enjoyable in large part due to many friends like Anupam, Nagendra, Sundeep, Sanjay, Gopal, G Khan, Ravi, Gufran, Ghanshyam, Subham as they became a part of my life.

I am grateful for time spent with my lab members Hemendra Singh Chouhan, Chinnadurai Saravanan, Sanjay Bharti, Meenakshi Singh, Satheesh Babu, Devendra, Srabanti, Gopi, Ravindary, Ankit, Sani, Faizan. I owe a lot to Satheesh babu for his tender help during final year of my stay.

I must thank those whose tangible and emotional contributions have been even more sustained. I would like to thank my family for all their love and encouragement. For my parents who raised me with a love of science and supported me in all my pursuits.

(Dileep Kumar)