

## ACKNOWLEDGEMENT

*First and foremost I am extremely grateful to God for His blessings throughout my research work and granting me the capability to proceed successfully.*

*I am completely indebted to my Guide Prof. Mrs Neeta R. Pandya for all her understanding, advice, patience, enthusiasm and immense support throughout my Ph.D. I am thankful to you madam for letting me fulfil my dream of being your student and giving me opportunity to write an honour thesis.*

*I am thankful to our extremely supportive Head Prof. Mrs.SandhyaKiranGarge to provide me all possible help and facility in the department. My sincere thanks to Prof M. Daniel and Prof. ArunArya for their support and guidance.*

*Special thanks are due to Prof. NSR Krishnayya and Prof.Susy Albert for their continuous motivation, support and advice with a pleasant smile. I would like to thank all teaching and non-teaching staff members for their timely help during my study.*

*My thanks are to Ms. Alka Dangash, my friend, guide and a lifeline, she is holding the base of my research, which was tough to start without her support. Her help and support is unexplainable.*

*I am very much grateful to M/s.Ipca Laboratories Ltd.Ratlam for providing me the required plant material to conduct my experiments.*

*I owe my thanks to Dr. P.S. Nagar and all staff members of botanical garden and arboretum for all the help provided to perform my field experiments.*

*My thanks are also due to Ex-Head Department of Pharmacy Prof.S.N.Mishra and his student Dr.Mohan for their valuable guidance and permission to work on HPTLC.*

*I am thankful to the weed science and crop science department of Anand Agriculture University(AAU) for their valuable guidance for my research work, and also for allowing me to use their reference section.*

*Heartfelt thanks to all my Ecomates -Dr.Binal Christian, Dr.Dinakaran, Dr.Dhaval Vyas, Dr.Nirav Mehta, Dr.Preeti Baria, Ms. Krishna Panchal, Ms.Shrena Patel, Ms.Aparna, Ms.Manjit, Ms. Nikita, Dr. Divya Patel, Dr.Amee Padhiyar, Ms.Dhara Gandhi and Ms.Rashmi who were the premium source of learning new things, happiness and stress busters.*

*I am deeply indebted for the support and encouragement given by Mr. Amitabh Nagori, Director of M/s. Unilink Chemicals Pvt Ltd. and other staff members.*

*Word of thanks for my mother, Mrs Anila Purohit who has been my source of inspiration and continuous source of encouragement throughout my life. I gratefully dedicate this thesis to my father late. Mr. Vijay Vasudev Purohit, for the myriad ways in which, throughout my life, he had actively supported me in my determination to find and realise my potential.*

*Words fail when it comes to thank my sister Ms. Roshni Joshi for being my best critic who always supported & trusted me which gave me strength to fulfil my dream. I am also very grateful to all my cousins Pratiksha, Raghvendera, Kushal, Ashmita, Jinal, Nitesh, Harsh and my family members for their constant encouragement and support.*

*I am obliged to Dr. Bhavna Sharma –my friend, colleague, co-traveller and researcher- without acknowledging her, this thesis and acknowledgment will be incomplete. Thank you so much for your care, love and support round the clock for these many years.*

*My special thanks are due to Mr. Rajnikant Lawana and his family for the great support in initiating my research. I greatly appreciate the excellent encouragement and spiritual support of Ms. Rishita Parmar and Mr. Renjith Rajan during my PhD study.*

*I am grateful to my friends Ms. Tejas Patel, Ms. Ruchi Shah, Ms. Pinky Sonawane, Ms. Vandita Patel and Ms. Mrugali Brahmhatt for their unconditional support and care.*

*There are number of people named –unnamed without whom this thesis might not have been possible, and to whom I am greatly indebted.*

*Thank you very much everyone!!!*

*-Shivangi Purohit*