

DEDICATED TO  
FAMILY AND  
FRIENDS

## ACKNOWLEDGEMENTS

---

*This thesis have not been possible at all without the grace of the almighty GOD and supportive guidance of people who acted as direct inspiration in every act of thesis preparation and always being there as personal counsellor.*

*First and foremost, I would like to thank my guide, Prof. P. C. Mankodi, a fatherly figure, who stood beside me during the entire period from initial stages of my PhD till the completion of this thesis. I would like to express my sincere gratitude towards him for his continuous support, patience, motivation, and showering immense knowledge in my PhD and related research. His guidance always directed me towards excelling in efforts and being focused during the complete course of time invested in researching and finalizing this thesis. Finding a better advisor cum mentor like him would have been definitely very hard.*

*I would like to thank my HOD (Department of Zoology) for showing his support for laboratory facilities usage and extending necessary facilities during my research work. I am thankful to all staff members, Teaching and Non-teaching, Department of Zoology, Faculty of Science, The Maharaja Sayajirao University of Baroda and My teacher Mr. Narendra Dodiya and others who taught me in my school (K K Mori), Bachelors (Bahauddin science college-Junagadh), Masters (Bioscience department-Rajkot), who have been supportive are duly acknowledged.*

*I am also thankful to Sun Pharma Advanced research Company Ltd, for allowing me to excel my knowledge going through doctorate degree.*

*I feel blessed to have the very supportive and encouraging superordinate Dr Virendrasinh Zala, and my friends Dr Mukesh Kacchot, Aashis Ratanghayara, Naresh Dodiya, Mahesh Bhadarka and my colleagues from Toxicology department without whose support my PhD would have been incomplete.*

*My heartily thanks to my cousin Mr. Narendra, Mr. Gaurang and Dr Rushabh who supported me for water sample collection during my Field work.*

*The people without whom this work would not have been in this shape are Dr. Khushali Pandya, Dr. Parth Pandya, Ms. Shweta Patel, Ms. Kinjal Shah, Ms. Pinal Shah, Mr. Kangkan Jyoti Sharma and Ms. Nevya Thakkar. Since beginning, they all assisted me persistently and supported me during my highs and lows. Their encouragement and support till the final phase of the thesis with sheer patience and tolerance power were the driving force for me to successfully complete the thesis.*

*At this stage, I must accord my heartfelt obligations to my Uncle late Shri Karshanbhai Parmar for his blessings on me.*

*I cannot pen down the acknowledgement note without according my sincere thanks and deep love to my sweet and loving nephew Samarth and son Devarsh whose smile and curiosity boosted my zeal and spirit in the work*

*Finally, nothing is complete if I am unable to thank my father shri Bhagvanbhai and mother shri Dudhiben, who had given me the sight to understand the eternal truth from the beginning of my life.*

*I am very thankful to my uncle shri Govindbhai, aunty shri Santokben, my wife Krutika, elder brother Mahendra, Bhabhima Sheela, Sister Dr. Bhavana and Kiran for their understanding, patience, inspirations, sacrifices and blessing.*

**-Hiren B Parmar**