ACKNOWLEDGEMENT

First and foremost I praise God, the almighty for providing me this opportunity and granting me the required strength to accomplish this research work. This thesis in its present form would not have been possible without the unconditional support and the encouragement of many people associated directly and indirectly with me. So I consider this an opportunity to thank all of them and consider these acknowledgements as heartfelt feelings put as words on a paper.

I would like to express my deep and sincere gratitude to my honorable research guide Dr. R. J. Verma, professor, Department of Zoology, Gujarat University, Ahmedabad, for giving me the opportunity to do research under his valuable guidance. I thank him for his keen interest, meticulous efforts, constant encouragement, patience and useful critiques throughout my research tenure in his lab.

I am very much grateful to Dr. M. V. Rao, Professor and Head, Department of Zoology, Gujarat University, Ahmedabad, for his immense support in completing my research work.

With immense pleasure and gratitude I acknowledge Dr. N. K. Jain, Professor and Head, Department of Life sciences, Dr. L. B. George, Dr. H. N. Highland, Dr. K. R. Desai, Dr. Divya Chandel and Dr. Devendra Jhala, Department of Zoology, for enlightening me throughout my research work.

I gratefully acknowledge Dr. Y. T. Jasrai, for his encouragement and kind support which helped me in completing my research work.

I would like to say thanks to my research colleagues and friends, Dr. Krithika, Dr. Komal, Dr. Neha, Dr. Sarmistha, Dr. Heena, Dr. Monali, Amit, Sanman, Hetal, Naushina, Disha and Saumya for their encouragement and timely help which enable me in completing this work.

I take this opportunity to thank the most wonderful persons of my life. Words fall short to express my profound gratitude to my loving parents, my little sister Ms. Komal Suthar, my in-laws for their prayers and moral support that boosted my energy and spirits. I thank them for giving me the freedom to pursue my dreams. A special thanks to my husband Mr. Bhushan Suthar for providing me continuous zeal, confidence and enthusiasm to fulfill this research work.

Finally, I thank all the people who have supported me in completing the research work directly and indirectly.

Hiral Suthar