

ACKNWOLEDGEMENT

Successful completion of a doctoral studies, though involves major efforts put in by the candidate and an instrumental role played by the research guide, in addition to this there is a team people who either directly or indirectly are involved in the work. To me these people not only deserve a due acknowledgement but shall be remembered for the rest of my life.

In the first place I express my sincere gratitude to the innumerous blessings of Almighty who made me walk through this path and made the entire of my journey so adventurous to turn into a memorable experience.

The day I joined my research, I heard from number of people that a guide student relationship is the most difficult relationship under the sun. But I never felt so, for my Guide **Dr. B. Suresh**, played multiple roles in my life as research guide, as a teacher, as a mentor and always stood by me as firm as a rock in every critical situation that came along. His constant support, encouragement, competitive nature and valuable guidance have made strong enough to face every challenge in my life.

I hardly have any words to express my indebt gratitude towards my Guide **Dr. B. Suresh.** This wonderful piece of work in your hands is chiefly a product of his expertise, vision and creativity.

I also express my deep appreciation to **Dr. Isha Desai**, to have spared her valuable time from her busy schedule to critically read the manuscript and do the necessary corrections and editing that was required and also certain inputs in the form of valuable suggestions. She was always there for me as very understanding teacher and a counselor whenever one needed.

My special thanks to **Prof. Bonny Pilo** my Grand Guide, for his constant support, encouragement and valuable suggestions throughout the tenure of my research.

I extend my sincere thanks to **Dr. Pragna Parikh** and **Dr. Dolly Kumar**, for their moral support and encouragement, their care and concern towards me in the entire of my research period.

I would like to thank, Head, Department of Zoology for infrastructural support and facility.

The current work would not have accomplished without the financial assistance, for which I am indebted to **The Maharaja Sayajirao University of Baroda** for providing the **University Research Scholarship** and also to the **UGC** for their research scheme **RFSMS**.

I am thankful to all my **teachers** in the Department of Zoology for their support and encouragement. I am also grateful to Non-teaching staff of the Department of Zoology for their timely help in various administrative matters especially maintaining the accounts of the fellowships.

While ideas do hold the pivotal role in research, resources and academic inputs and encouragement hold a special significance. In this context, I would like to thank-

Prof. S. K. Dutta, Head, Department of Zoology, North Orissa University, Baripada, for providing an interactive platform by organizing the SERC School in Herpetology, that helped me a lot in designing my field experiments.

Dr. KarthikeyanVasudevan, Scientist C, Wildlife Institute of India, Dehradun, and Dr. S. Bhupathy, Scientist, Salim Ali Centre for Ornithology and Natural History for their critical suggestions regarding ecological parameters. Dr. K. V. Gururaja, Centre for Ecological Sciences, IISc, Bangalore, for critical suggestions.

I heartily thank all my colleagues, Ms. Hetal, Ms. Gowri, Ms. Shailjaand Ms. Deepa in the Departmentfor making the adjustments in the teaching schedules and give me adequate time and space to finish my thesis within the protracted time period.

I sincerely thank Mr. Ajay Roy for editing the maps of the study area and beautifying the images and enhancing the quality of presentation.

This finished product would not have been complete in time had my junior colleagues and friends not pumped in the last moment efforts.

In the first place my hearty thanks to dear Ayaz, for the entire editing and formatting of my images in Coral programme and giving an aesthetic look to these images. More and junior and a friend Ayaz has always been like my younger brother in the Department, irrespective of time and situation he was always there for me whenever I needed his help.

I sincerely thank Ms. Anushree, Ms. Hetal and Ms. Shailja also for critically reading the manuscript and pointing the necessary correction in particular the typographical error which are generally overlooked due a hurry.

Hearty thanks are due Ms. Sarada, Ms. Bhavika, Ms. Shalaka and Tushar for the thoroughly reading the bibliography and pointing out the errors and later helping me in editing and rectifying the same.

Special thanks are due to dear **Tushar** too, as his versatile nature managed so many resources for me outside the Department and he also stood by me in every situation and was always ready to rush for me without a second thought.

I also wish to thank my other colleagues and friends from the Department and from other Departments from the Faculty of Science, for any kind of help they rendered or for their company over a cup of tea at cafeteria, to be mentioned are **Pranav**, **Zala**, **Santhosh**, **Misaal**, **Tana**, **Sonal**, **Jagruti** and **Niraj**.

Though rightly said that in friendship there is no sorry and no thank you. Very true, still the gesture needs to be expressed in words and so I make an attempt to thank all those friends of mine who tremendously helped me even though not being present here in person.

To begin with I heartily thank my dear friends Vinay(now, Dr. VinayBhargava – IFS) and Kamlesh, from Wildlife Institute of India, Dehradun, for their timely help in sending me some of the important references form the WII library and also helping me with statistical software. Their constant support during the entire research tenure was priceless.

I also thank **Mr. Kamlesh, Mr. Bopanna** and **Mr. Sutirtha** again from WII, Dehradun, for helping me in conducting my studies in Kutch, by providing me a field base and accessibility to the area.

I sincerely thank IshanAgrawal, from IISc, Bangalore for providing me few of the pictures of lizards that I could not capture nicely in field and thanks are also due to Mr. Padmanabhan from ZSI, Chennai for sending me some of the literature.

Hearty thanks to **Mr. Manoj**, Asst. Curator in the Natural History Section, ChhatrapatiShivajiVastuSangrahalay, Mumbai and a close friend of mine for searching some of the valuable ancient literature from the museum library as well as from BNHS and sending me the same from time to time.

In every mega project there are people who always remain back stage and never come in limelight, but these people play a vital role in the project completion. To me these people were all my field assistants in the various study areas, without their support the study would not even have started also. I thank one and all from the depth of my heart, they are Harishbhai (Sindhrot);Natubhai, ManekbahiandChaturbhai (Pavagadh); Negi, Deva, Ishakin Kutch and alsoRekha(Negi's wife and our cook).

Apart from all these people who were directly linked with the work, there were people who were not directly linked with the work but had a great care and concern for me. The support from these friends and their constant encouragement was a fuel to my journey on this path. To mention a few I heartily thank my friends Ashutosh, Bhargav, Ketan, Hitesh, Jatin, Rajuand Makarand for their support and encouragement.

Thanks are also due to my elder brother **Dr. Rajesh**, my sister-in-law **Dr. Archana**for their support and encouragement. My brother **Rajesh** was always there for me not only as brother but as friend and companion and constantly inspired me towards achieving my goal.

Finally, I express my deep gratitude towards my most dear and closest friend **Kapil**, for everything he has done for me, and that cannot be summed up in words.

Last but not the least, I am indebted to My Parents for everything they have done and for me, their blessings were my major strength and endurance that took me through this path and shall also take me much ahead in my life.

This achievement would not have been possible without the untiring efforts of My Mother and constant support of my guide Dr. B. Suresh. Hence I wish to dedicate my thesis to my Mother and my revered Guide.

PratyushPatankar