ACKNOWLEDGEMENT

As I foreword to write the pages of thesis, I remember the Ocean of guidance, support, path showing, illumination and inspiration from innumerable sources.

This particular juncture offers me an opportunity to pen-down my esteemed and profound sense of gratitude towards my Major advisor Dr. S. H. Talekar Associate Professor and Hospital Superintendent Teaching Veterinary Clinical Complex, College of Veterinary Science and Animal Husbandry, Junagadh Agricultural University, Junagadh, for those scholastic guidance, prudent planning, keen interest, constant critical supervision, excellent cooperation and invaluable counsel throughout the pursuit of this study and preparation of this manuscript. His very cordial behaviour would always remain ideal light for me in future also.

I express my heart-felt gratitude to my Minor advisor Dr. A. R. Ahlawat, Associate Professor and Head, Department of Animal Genetics and Breeding, College of Veterinary Science and Animal Husbandry, Junagadh Agricultural University, Junagadh for providing me spirited guidance and critical counsel as and when required.

I am profoundly thankful to my committee members Dr. V. A. Kalaria, Assistant Professor, Department of Pathology, College of Veterinary Science and Animal Husbandry, Junagadh and Dr. V. D. Dodia, Assistant Professor, Teaching Veterinary Clinical Complex, College of Veterinary Science and Animal Husbandry, Junagadh Agricultural University, Junagadh, for their useful suggestions and valuable guidance throughout the course of my study.

I am highly thankful to the Principal and Dean Dr. P. H. Tank, College of Veterinary Science and Animal Husbandry, Junagadh for providing Research facilities and an opportunity to pursue my higher studies from such an esteemed institute of Gujarat state.

I am also very thankful to Dr. A. R. Pathak, Vice Chancellor, Junagadh Agricultural university, Dr. V. P. Chovatia, Director of Research and Dean, PG studies, JAU, Junagadh and Dr. A. M. Parakhia, Registrar, JAU, Junagadh for allowing M. V. Sc. study and providing me all facility for research work.

I am highly obliged and grateful to Dr. J. V. Vdalia, Dr. N. R. Padaliya and Dr. K. S. Gameti Assistant Professors Department of Veterinary Surgery and Radiology, Dr. R. J. Padodara, Assistant Professor Department of Veterinary Physiology, College of Veterinary Science and Animal Husbandry, Junagadh, for their help throughout my research work.

I feel pleasure in expressing my thanks to my best friend Dr(s). Kushang Murabiya, Parul Khunt, Dhaval Vaghela, Kamlesh Solanki, Vipul Chauhan, Kostiya Akash, Manish Soni, Katara Kripal, Shruti Vora, Kalola Vivek,
Harpal Gohil, Mehta Jatin for their timely help, support and wholehearted co-operation during the entire course of study.

At this inexplicable moment of joy, Words are inadequate in the available lexicon to express my gratitude towards my family. My heart takes breath when I realize the painstaking efforts taken up by my “Family” for making me post graduate of the noblest profession. Words are just not sufficient to express my feeling for their love, blessing, affection and encouragement given to me by my beloved Father Devdanbhai, Mother Raniben, Brother Vijay, Sister Hiral and Sonal for their constant patience and silent support which have truly helped me during the pursuit of my study.

Last but not the least, I shall ever, remain thankful and indebted to all those known and unknown hands who directly or indirectly have been associated with the completion of this work and motivated me to achieve my goal.

Place: JUNAGADH
Date: 27 / 07 / 2017

Mithun D. Khatariya