AKNOWLEDGEMENT

I feel a proud pleasure and privilege to express my deepest sense of gratitude and indebtedness to my honourable supervisor Dr. S. G. Savalia, Training Associate (Agro.), Office of the Director of Extension Education, JAU, Junagadh for his affection, inspiration, constant guidance, valuable suggestions and instructions throughout the progress of this research work and in preparation of this thesis.

I express my great sentiments of regard appreciation to member of my advisory committee, Dr. V. B. Bhallu, Assistant Professor, Dept. of Agronomy, College of Agriculture, JAU, Junagadh, Dr. L. C. Vekaria, Assistant professor Dept. of Agril. Chemistry & Soil Science, College of Agriculture, JAU, Junagadh, and Dr. S. M. Upadhyay, Professor and Head, Department of Agril. Statistics, College of Agriculture, J. A. U., Junagadh for their keen interest, constant attention and guidance during my study.

I am also faithfully accentuate my everlasting gratitude to Dr. A. R. Pathak, Hournale Vice Chancellor, Dr. V. P. Chovatiya, Director of Research and P. G, Dr. B. K. Sagarka, Principal, College of Agriculture, Dr. N. M. Zalawadia, Professor and Head, Dept. of Agril. Chemistry & Soil Science, College of Agriculture, JAU, Junagadh for providing necessary facilities during my study.

I would like to extend my special thanks to Dr. K. B. Parmar, Dr. K. B. Polara, Dr. J. V. Polara, Dr. H. L. Sakarwadia, Retired Dr. N. B. Babaria, Dr. A. V. Rajani, Dr. M. S. Solanki, and Prof. A. S. Jadeja for their erudite guidance and extraordinary support during my study without which my task could not have been accomplished.

My sincere thanks are also due to Prof. P. B. Bhunsa, Mr. R. M. Vikani, Mr. D. V. Parakhia, Dr. B. M. Butani, Kajal Ranpariya and Kishorbhai, Ashwinbhai, Rajubhai, Satishbhai, Vaghelabhai, Vijaybhai, Sandipbhai for their untiring assistance in the laboratory work. I also wish to place my thanks to Mr. R. M. Parmar, store keeper for availing necessary chemicals and glass wares time to time during entire period of my study.

I also record my heartfelt thanks to Dr. H. P. Gajera, Associate Professor, Dept. of Biochemistry, College of Agriculture, JAU, Junagadh. I cannot eschew to express my cordial thanks to Disha didi, Lab. Technician, Dept. of Biochemistry.
I submit my gratitude thanks to Dr. R. K. Mathukia, Dr. S. P. Kachadia, Dr. P. K. Chovatia, Dr. R. M. Solanki, staff members of Dept. of Agronomy and all staff members of academic branch and central library for their ever willing co-operation and encouragement.

Although the researcher has received lots of help, assistance and co-operation from many persons in each phase of research work. To me research is one man’s endeavor. I highly thank to a group of my friends Bhumika Vadaliya, Monali Davara, Mital Godhani, Rutu Barasiya and Monika Hirapara. I also record my heartfelt thanks to my colleague Divya, Barkha Rani, Chandana Devi, Nirali, Rushang, Sanjay, Jadav, Atul, Haresh and Patil for their willing co-operation, joyful company and good wishes.

I am really grateful to my senior friends Nayana Savaliya, Chapadiya Foram, Janki Movalia and to my lovely junior Sivani, Ankita and Ashwariya for their timely help and kind co-operation during course of study.

At last but foremost, words run short to express my indebtedness to my beloved parents. Most humbly I bow my head with sense of reverence to my venerable Father Shri. Rajeshbhai Ribadiya, Mother Smt. Vilashben Ribadiya, My Brother Renish, My cousins Ketan, Dharmistha, Komal and Krishana bhabhi who were instrumental in providing this opportunity for building up my education carrier, encouragement and inspiration throughout study. Last but not least; since it is practically impossible to list all the names who contributed contributions to my work, it seems proper to issue a blanket of thanks for those who helped me directly or indirectly during the course of study.

I frankly admit that it is not possible to remember all the faces that stood behind the façade at this juncture and omission of any name does not mean lack of gratitudeness. Now as I carry this thesis in my hands. I carry with me memories that will enrich my nostalgia.

Finally, a million thanks to God for bestowing me with divine spirit, essential strength and necessary support to find my way towards a glorious career amidst several struggles.

Place: Junagadh
Date: 05/05/2018

(Ribadiya Trupti R.)