ACKNOWLEDGEMENT

The work presented in this manuscript was accomplished under the sympathetic attitude, animate directions, scholarly criticism, cheering perspective and enlightened supervision of my honorable major guide Dr. R. M. Solanki, Associate Professor, Department of Agronomy, Junagadh Agricultural University, Junagadh. I have no words to express my heartfelt thanks to him for his illuminating guidance, scholarly suggestions, judicious supervision, amiable behavior and keen interest throughout the course of this investigation and preparation of the manuscript.

This memorable occasion provides to me an unique privilege to offer sincere thanks to the advisory committee, Dr. K. B. Parmar, minor guide and Associate Research Scientist, office of the Directorate of Research, JAU, Junagadh, Dr. J. M. Modhavadia, member and Assistant Professor, Department of Soil & Water Engineering, College of Agril. Engg. & Technology, JAU, Junagadh and Dr. S.M. Upadhyay, (member) and Professor and Head, Department of Agril. Statistics, JAU, Junagadh for their useful suggestions, constant attention and help throughout the period of investigation.

I also record my sincere thanks to Dr. A. R. Pathak, Honourable Vice Chancellor, Dr. V. P. Chovatia, Director of Research & Dean PG Studies and Dr. A. V. Barad, Principal and Dean, College of Agriculture, JAU, Junagadh for providing necessary facilities during this study.

I am sincerely thankful to Dr. B. K. Sagarka, Professor and Head, Department of Agronomy, College of Agriculture, JAU, Junagadh, Dr. P. K. Chovatia, Dr. R. K. Mathukia, Dr. B. M. Dubhi, Dr. M. A. Shekh, Prof. M. C. Chopada and all the staff members of Department of Agronomy for providing guidance and necessary help during period of study and research activity.

I acknowledge the willing help and generous cooperation provided by Dr. N. B. Babaria, Professor & Head, Dr. K. B. Polara, Dr. A. V. Rajani, Dr. H. L. Sakarvadia, Dr. L. C. Vekariya and Prof. P. B. Bunsa, Department of Soil Science & Agril. Chemistry.

The importance of library and role of its staff can never be underestimated. I extend my heartfelt thanks to staff members of Central Library, ‘C’ branch of Principal office and Examination branch of Registrar office for their cooperation during my study.
Diction is not enough to express my gratitude towards my beloved family and I cannot eschew to express my whole hearted sense of reverence to my beloved parents Pratapsinh and Jashiben, my father-in-low Sidabhai and mother-in-low Ajuben whose selfless love, filial affection, constant encouragement, obstinate sacrifices, sincere prayer, expectations and blessing have always been vital source of inspiration in my life.

I have great pleasure to record my love and affection to my brothers and sisters Usha, Vandana, Sujit, Mayank, Jaldeep, Sagar, Khushi, Karan, my brother-in-low Pravin, Kalpesh, Dhruvsh and Sidhharth and my sister-in-low Pragna, Dharmishtha, Jaishree, Alpa, Sejal and Kiran.

I am really thankful to my friends and I have long list of my dear friends. I wish to convey my special thanks to Krupa, Anmol, Femi, Amita, Krishna, Ekta, Divya, Naushin, Shalini, Pooja, Dixa, Bhavna, Mohit, Vikram, Markhi, Sagar, Jignesh, Vimal, Rohit, Pravin, Paresh, Jayesh, Dindayal, Shivprasad, Hikkmathhula and Bhavanisingh for their continuous and generous help rendered during my research work and for their timely help, fully support and kind cooperation during the course of my study.

The fulfillment of this research is due to the cooperation of many people. Therefore, I can only hope that I mention you all and those who I forget at this moment please forgive me and despite this lapse I really do appreciate you all. But above all I owe my deep sense of gratitude to God “Lord Shri Krishna and Shri Ganesha” for his choicest blessings, strength that made it possible for me to complete my studies and enabling me to accomplish this great task of thesis work.

Last but not the least, shirking of the cold of January, across the blossoming March to the blazing heart of June, a circumstance motivation coupled with encouragement, cooperation, care and kind support with silvery foil of love, patience and bearing with my busy schedule sacrifice from my dear husband Dipak Dodia, cannot be expressed in the words.

Place : Junagadh
Date : 22 June, 2017

(Zala Kinjalben Pratapbhai)