Acknowledgement

I am highly thankful to God ‘The Almighty’, who is responsible for every achievement and downfall. I am thankful to God from the bottom of my heart for empowering me, blessing me with patience and giving me strength to solve the all the problem.

My journey toward the completion of Ph.D in Botany has involved many people and I am immensely delighted to acknowledge them as I progress towards the completion of my course.

I wish to thank Dr. Padamnabhi S. Nagar, my research guide with a deep sense of gratitude. It was his supervision and guidance that brought about the successful, inspirational, motivational and encouragement which enable me toward the completion of this course.

It gives me great pleasure to express my deep sense of gratitude to Prof. Sandhya Kiran Garge, the Head of department of Botany and Prof. Arun. Arya, the Ex Head Department of Botany. I have been able to conduct this work due to their consent and support for allowing me to carry out the innovative research work and exploring the existing facility in the department.

I am profoundly thankful to Retd. Prof. M Daniel for his encouragement and motivation to learn and understand the basic of phytochemistry.

I express my gratitude to Prof. Vrinda Thaker, Department of Bioscience, Saurashtra University, Rajkot for assisting and supporting me for analysis of the matK gene.

I have immense pleasure in expressing my sense of gratitude to Dr. Sunita Shailayan, Department of Botany, Ramanariarn Ruai College, Mumbai for assisting me in the HPTLC analysis. The assistance rendered by Prof. Anamik Shah and Ms. Madhvi patel for using analytical instrument at department of Chemistry, Saurasthra University was most important for me to carry out phytochemical analysis. Especially for GCMS and NMR analysis which could not be possible without their support.

I am also grateful to Dr. Denni Mammen for helping me to understand some of the daily basic of chemistry which proved beneficial in my research work.
Well my work was on endemic plant, so there was always problem for raw material, but their cultivation in arboretum of The Maharaja Sayajirao University of Baroda, had solved the problem to great extend. For these I want to give my special thanks to the gardeners of the arboretum namely Vipinbhai, Arvinbhai, ParbatBhai, Vasant kaka, Maruti Sir and Paresh Patil looking after the tenderly grown sapling of these endemic Tephrosia sp.

I highly appreciate for the support and enconragement given by colleagues, Ms Poonam Mangalokar, Mr. Dipak Tadvi, Mr. Karan Rana and Ms.Mital Bhatt. The support and help rendered by Ms. Madhvi Patel and Ms. Bhavisha Seth, at various step of my studies was of immense help for my research study. I am also grateful to my friend Ms. Poonam Yadav, Ms. Reema Desai, Ms. Divya Patel and Mr. Rahul Parkih, for their unconditional assistant and support.

Th assistance and patient rendered by non teaching staff of the department for allowing me to work till late evening was indeed a great help to me for completion of my work. I am also thankful of University Grants Commission, New Delhi, for financial assistance provide to me in form of BSR-RFSMS (Research Fellowship in Science for Meritorious Students).

I also wish to express my deepest gratitude and respect to my beloved family members- my parents, my parent in law, brother and husband to be always there for me at any odd times.

I also express my sincere thanks to all those who have not been mentioned by name but nevertheless have been of invaluable help in their inscrutable ways.

(Bhambra Gagandeep Kaur P.)