

### ACKNOWLEDGEMENTS

I express profound sense of gratitude to Dr. K. S. RAO, for introducing me to this subject , under whose able guidance I carried out this work. His constant valuable counsel and constructive criticisms throughout the work is greatly acknowledged.

I am thankful to Head, Deptt. of Botany for the encouragement throughout the work.

I express sincere thanks and gratefulness to Prof. J. J. SHAH for his kind help and useful suggestions.

I am also thankful to the Lion's education trust, Principal and my colleagues Mr. Darshan, Mrs. Lata, Mrs. Bhavana and Mrs. Yogini of Baroda High School ONGC for their constant encouragement to pursue this degree.

I am greatly indebted to Dr. N. S. R. Krishnayya who has inspired me to pursue the degree.

Special thanks are due to my colleagues in Botany Deptt. Dr. Murukesan, Dr. (Mrs) Susy, Dr. Jayesh Bhatt, Mr. Kishore, Mr. Kotibabu and Mrs. Shobha Kamat for their kind help during the study.

I sincerely acknowledge the timely help rendered by Head, Geology Deptt. M. S. University and Head, Deptt. of Biosciences, S. P. University by allowing me to use the Scan-

ning electron microscope, Flourescence and Polarization microscopes.

I thank the Director, GSFC, for providing facilities required for the soil analysis and Directors, Meteorological Centre, M. S. University and Soil Conservation Research Centre, Vasad for providing the data.

It gives me great pleasure to extend my gratitude to Mr. K. V. Rao, Mr. K. C. S. Rao, Mr. A. S. Rao, Mr. Bhanu and Mr. Mohan for allowing me to use the computer facilities and for the preparation of manuscript.

I owe a great deal to my wife Vinaya and baby Meghana for their love, affection and encouragement to pursue this degree.

BARODA.  
NOVEMBER, 1985.

T. SRINIVAS.