

## ACKNOWLEDGEMENTS

I take this opportunity to express my deepest sense of gratitude and heartfelt thanks to Professor R.S. Tripathi, Department of Botany, North-Eastern Hill University, Shillong, for his valuable guidance, keen interest, constructive suggestions, criticisms and constant encouragement during the entire period of investigation. The words fail me to express my full and sincere gratefulness to him.

I am also sincerely grateful to Dr. R.N. Prasad, Co-supervisor and the then Director, ICAR Research Complex for North-Eastern Hill Region, Barapani for his kind permission to carry out the study. I am thankful to him as well as the present Director, Dr. R.P. Awasthi for providing necessary facilities. I offer my most sincere thanks to (Late) Dr. B.P. Singh, Senior Scientist (Soils) for his valuable suggestions and help in soil and plant analysis. My grateful thanks are also due to Professor H. N. Pandey, Department of Botany, North-Eastern Hill University, Shillong for his valuable suggestions from time to time.

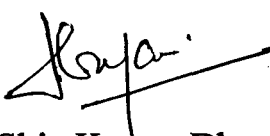
I am grateful to the Head, Department of Botany, North-Eastern Hill University, Shillong for laboratory and library facilities.

The research scholars of Plant Ecology Laboratory, Department of Botany, N.E.H.U., Shillong, Mr. Arunachalam, Miss Kusum Maithani, Mr. Babu John, Mr. S. Dasgupta and Mr. Jamir, extended valuable help and cooperation during the course of this study. I am thankful to them.

Thanks are also due to the technical personnel of the Agroforestry Project at ICAR Research Complex for N.E.Hill Region, Barapani, Mr. L.K. Misra, Mr. T.C. Sarmah and Mr. S.G. Ahmed for their help during the course of this study.

I am sincerely grateful to my wife Sarojini and son Abhishek and Ankit who patiently shared every ups and downs in the course of this research work.

Shillong  
Dated May, 1997

  
(Shiv Kumar Dhyani)