ACKNOWLEDGEMENT

I would like to express my heartfelt appreciation and grateful appreciation and grateful thanks to my guide Dr. Pradip Kumar Baruah, Prof. and Head of Botany Department, USTM, for his guidance, dedicated efforts, valuable discussion and encouragement during my research work. Studies and for his suggestion for completing the writing of papers and thesis. He also providing facilities to carry out Laboratory works in Botany Department of Cotton Collage.

I would like to express my sincere thanks to Dr. B. K. Singh Retired Director, CMER & TI, Central Silk Board, Ministry of Textiles, Govt. of India for his suggestion, corporation, recommendation and permit to carry out the chemical analysis of plant leaves in Laboratory.

I also express my heartfelt thanks to Dr. D. N. Chakravarty and staff of NEO Land Technology Laboratory, Guwahati for analysis of soil samples and staff of Reginal Tasar Research Station, Central Silk Board, Imphal, Manipur for providing, technical reports and reeling of Oak tasar cocoon in Reeling section.

I also like to express my sincere thanks to Scientific and Technical staffs of Central Silk Board, Dr. N. I. Singh, Dr. N. M. Singh, Dr. Reena Choudhary, Dr. N. T. Singh, Dr. M. Deka, Dr. S. A. Ahemed, Smt. M. Nath, Shri G. K. Das, Md. Samim Hussain and friends Dr. M. Nath, Shri Manjit Kumar Ray and Shri R. K. Talukdar.

I express sincere greatfulness to Late. Dr. S. C. Das; Prof & Dean, School of Biological Science, USTM.

I humbly bow to the Almighty for giving me good health and wisdom to carry out my investigation. Lastly but not least thanks are also due to my wife Smt. Binita Gogoi, my elder daughter Miss Shivani Silpa Gogoi and all other my family members and my well wishers who encouraging me for the time of investigation.

Date

(Ananda Krishna Gogoi)