ACKNOWLEDGEMENT

The author expresses his deep sense of gratitude to Dr. K.C. Satpathy, Post Graduate Department of Chemistry, Sambalpur University, Jyoti Vihar, Burla for his guidance, inspiration, supervision and valuable suggestions throughout the course of present investigations. His cordial, friendly and helpful attitude and treatment led me to complete this project of investigation.

Shri S.C. Jain, Vice President, Pulp and Paper Research Institute and Vice President (Works), M/s. Straw Products Ltd., Jaykaypur introduced the idea of undertaking research projects by the Scientists of PAPRI for Ph.D. Degree and the author is the first person to avail the opportunity of his novel idea. With profound feeling of gratitude I record my indebtedness to him for his constant interest, advice and encouragement offered unstintedly throughout the research work.

I have no words to express my gratitude to the management of PAPRI, Jaykaypur who were kind enough to accord me the permission to carryout this research project at their Institute. Their significant contribution financially as well as by way of providing necessary facilities go a long way in the direction of fulfilment of my objective.
My gratitude to Dr. B.L. Bihani, Director, Board of Directors, PAPRI and General Manager, M/s. J.K. Paper Mills Ltd., Jaykaypur for his constant interest in the work.

I am highly grateful to Shri Jivendra, Secretary PAPRI and Manager (Control and Technical Services), M/s. J.K. Paper Mills, and Dr. A.Y. Kukazmi, Director, PAPRI, Jaykaypur, who have been instrumental in providing me the opportunity and necessary facilities along with their constant interest in my work and encouragement from time to time.

I am thankful to Shri S.N. Dash, Chief Conservator of Forests and Shri M.C. Das, Conservator of Forest, Working Plan, Government of Orissa, Cuttack and their offices for providing the valuable data and informations which not only form a part of the thesis but also guided me during the course of this investigation.

My sincere thanks to the Central Forest Office, M/s. Straw Products Ltd., Jaykaypur, specially to Sri V.S. Kansal, Forest Manager, who has been of great help in collecting various informations and supply of samples required for the study.

Forest Research Institute, Deheradun has been kind enough to lend the library facilities and I am obliged to them for the same. The thanks are also due to M/s. J.K. Paper Mills Ltd., Jaykaypur, M/s. A.P. Paper Mills Ltd., Rajahmundry,
M/s. West-Coast Paper Mills Ltd., Dandeli and M/s. O.P.Mills Ltd., Amlai for providing the necessary samples required for author for the study.

I shall be failing in my duty unless I put on record the valuable services and help rendered by my colleagues at the Institute.

My great appreciation to the patience and understanding of my wife Anoo showed during the period of the study. She unhesitatingly bore with the inconveniences and difficulties resulting from my deep involvement in the study. Without her help and encouragement in her own way it would have been difficult for me to fulfill my objective.

(Subhash Maheshwari)