ACKNOWLEDGEMENTS

It gives me a great pleasure and immense satisfaction to express my deep sense of gratitude to my supervisor, Dr. KOCHI ISMAIL, whose incredible guidance, continuous encouragement and valuable suggestions, have helped me to complete the work. His belief in providing fullest support and opportunity to the students to plan and work according to his own - the most glittering character - has always been my immense source of inspiration.

I extend my sincere thanks to the Head, Department of Chemistry, for providing me all the necessary facilities during the course of this work.

I am indebted to Prof. S. N. Bhat for his kind permission to utilize Hitachi - 330 UV - Vis Spectrophotometer.

I am also indebted to the faculty members of Chemistry Department for their help, encouragement and advices. My special thanks are due to Prof. T. S. B. Narasaraju,
Prof. H. Junjappa, Prof. M. K. Choudhuri, Prof. M. K. Mahanti, Dr. S. Aravamudhan and Dr. Myrboh.

I also wish to acknowledge the cooperation and help rendered by my senior colleagues, Dr. S. Mahiuddin, Dr. (Mrs) S. Islam, Dr. R. L. Gupta.

I wish to acknowledge the cooperation and help rendered by my dear colleagues Sontosh, Abhijit and ever willing Gunaseelan.

I further acknowledge the immense help and cooperation rendered by my dear colleagues Sudeep, Kishalaya, Gagan, Prasanta, Subhasish, Arun, Paramita, Reddy, Nadeem, Suchandra, Tomba, Raja, Pradeep, Bipul, Akhilesh, Ashish, Deepa, Jayashree, Arboth, Devasish, Deepak, Felix, Subroto, Swarnali.

My thanks are also due to senior colleagues S. N. Mazumder, A. Deb Roy, Subroto Choudhuri, S. C. Sarkar.

I also express gratefulness to Partha of Computer Centre for his immense help and cooperation.

I also acknowledge the cooperation of Principal, Sankar Dev College, Shillong. I am also grateful
to Mr. B. Das and Mrs. Das.

I owe gratitude to my father Shri (Late) DEBENDRA CHANDRA PAUL, mother Smt. ANICHCHA SUNDARI PAUL, brother shri. Kalikishore Paul and his wife, uncle Shri. RADHAKANTA PAUL and other family members for their constant inspiration and support without which this achievement would not have been possible.

Finally, I convey my gratefulness to all INANIMATE and ANIMATE entities of the whole Universe.

Shillong, Dated 23rd August, 1996.

BABUL CHANDRA PAUL