ACKNOWLEDGEMENT

I take this opportunity to express my sincere gratitude and respect to my research guides, Prof. (Dr.) Ranjana Chowdhury, and Prof. (Dr.) Pinaki Bhattacharya, Department of Chemical Technology, Chemical Engineering Department, Jadavpur University for their able guidance, constant help and encouragement without which it would not have been possible for me to shape this thesis in the present form.

My sincere thanks goes to Mr. A. Chatterjee and other members of workshop, Chemical Engineering Department, Jadavpur University for their immense help. I am also thankful to the Staff Members of library of Chemical Engineering Department, Jadavpur University, who have helped me to pull out the obstacles.

My sincere thanks are also due to all fellow scholars for their kind co-operation and support. Thanks are due to library staffs of Jadavpur University for their continuous help during my work.

I am sincerely thankful to my husband, my parents and all other members of my family for their constant support and encouragement throughout the course of my research work.