

PREFACE

The work in the thesis entitled "Diverse Interactions of Some Significant Compounds Prevailing in Different Solvent Systems with the Manifestation of Solvation Consequence by Physicochemical Investigations" was initiated under the guidance and supervision of Prof. Mahendra Nath Roy (Principal Supervisor) and Prof. Biswajit Sinha (Co-Supervisor), Department of Chemistry, University of North Bengal, since December, 2012.

The work is an attempt to investigate molecular interaction of some vitamins and bioactive molecules in aqueous solutions and also probing the inclusion phenomenon of some significant bio active molecules inside the cyclodextrin molecules by studying their physicochemical properties such as volumetric, viscometric, tensiometric, conductometric, and spectral contrivances.

During my research work, I was lucky and delight to participate in several seminars, workshop and symposium across the country. I was highly motivated by listening and interacting with famous experts and scientists in those meets. I was even fortunate enough to publish my research works in different National and International Journals of repute.

In reporting my research finding, due acknowledgement and credit has been stated whenever the work described was based on the finding of others researchers. I am also responsible for any unintended oversights and inaccuracies despite sufficient precautions.

I hope that the knowledge that I have earned during my work can be put into practice in the future.