

PREFACE

This dissertation is submitted for the degree of Doctor of Philosophy at the University of North Bengal. The work in this thesis entitled "**STUDIES ON INTERACTIONS OF SOME BIOMOLECULES AND SIMPLE MOLECULES BY PHYSICO-CHEMICAL PROCESSES IN LIQUID MEDIA**" was conducted under the supervision of Prof. M. N. Roy in the Department of Chemistry, University of North Bengal after being initiated in September 2011.

The atmosphere and environment here were far above my expectations. Aside from learning new skills and applications, the whole research period has been a great opportunity for me to meet and interact with renowned scientists from different parts of the world. From a chemistry perspective, I have had the chance to broaden my horizons whilst participating in the seminar and convention across the country. I was fortunate enough to publish my works in International Journals of repute.

The work is a serious attempt to explore molecular interactions prevailing in liquid media from the studies based on volumetric, viscometric, conductometric, refractometric and acoustic measurements. In keeping with general practice of reporting scientific observation, due acknowledgement has been made whenever the work described was based on the finding of other investigators. I must take the sole responsibility of any unpremeditated oversights and errors, which might have crept in spite of serious precautions.

The knowledge that I have acquired is practical, rather than theoretical. I feel that the experience I am having will definitely be helpful for my future career in the chemistry domains. I hope that I will be given more challenges in my life so that the knowledge that I have earned during my work can be put into action in the future.

It is not only my privilege whilst writing this Ph.D. thesis containing the result of my research work, but also a great life experience for me.