

PREFACE

The research work in the thesis entitled “**PHYSICOCHEMICAL INVESTIGATION OF SOME IONIC LIQUID BASED SURFACTANTS AND BIOLOGICALLY ACTIVE MOLECULES IN DIVERSE ARRANGEMENTS**” was initiated for about four years before under the supervision of **Dr. Mahendra Nath Roy, Prof. of Chemistry in the Department of Chemistry, University of North Bengal.**

This work is an effort to explore the molecular interactions, surface behavior as well as inclusion complexation of ionic liquid base surfactants and some biologically active molecules in aqueous systems by studying their physicochemical such as transport, volumetric, surface and spectral properties.

Throughout my research work, I was delighted to participate in various seminars / symposiums/ conferences across the country. I was really encouraged by listening and interacting with renowned experts, reviewers and scientists. I was even lucky enough to publish the research works in international and national journals of repute, which are included in the thesis.

In carrying out with general practice of reporting scientific observation, due acknowledgement has been made whenever the work described was based on the finding of other researchers. I must take the responsibility of any unintentional oversight and errors, which might have sneaked in spite of precautions.

I am confident of surmounting challenges in my future life putting into action all the acquired knowledge and experiences all over my research period.