The work in this thesis entitled “"STUDY ON THERMODYNAMIC AND TRANSPORT PROPERTIES OF SOME SOLUTION SYSTEMS WITH REFERENCE TO MANIFESTATION OF SOLVATION EFFECT" was initiated in 2008 under the supervision of Dr. M. N. Roy, Prof. of Chemistry in the Department of Chemistry, University of North Bengal. This research was realized within the framework of the Programme: “UGC Research Fellowship in Science for Meritorious Students” Ref UGC Letter No. F.4-1/2008 (UGC-BSR).

The work is an attempt to explore molecular interaction in non-aqueous electrolytic solutions by studying their thermodynamic, transport and acoustic properties.

I was highly inspired by my listening and interacting with distinguished experts and scientists during the course of my research work through participation in several meets and seminars across the country. I was even fortunate enough to publish the works in the thesis in International Journals of repute.

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 responsibility of any unintentional oversights and errors, which might have crept in spite of precautions.

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.