

UNIVERSITY OF NORTH BENGAL

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Exceedingly glad to certify that Miss. Lovely Sarkar, M. Sc. in Chemistry has carried out her research work embodied in the thesis entitled **“PHYSICO-CHEMICAL STUDIES ON VARIOUS INTERACTIONS IN SOME INDUSTRIAL SOLVENT SYSTEMS AND VISCOUS SYNERGY AND ANTAGONISM PREVAILING IN LIQUID MIXTURES”** based on her original work under my supervision and guidance.

She is submitting her Ph.D. thesis for the award the Degree of Doctor of Philosophy in Chemistry in the faculty of Science according to the rules and regulations of the University of North Bengal. The research work included in this thesis is original and has not been submitted previously in any form for the fulfillment of the Degree or Diploma of this University or any other University.

Lovely Sarkar derived a good academic career with excellent scores. She followed up her brilliant performance by being selected as UGC Research Fellowship in Science for meritorious student Ref. No. F.4 -1 /2006 (X1 plan /BSR) under **SAP** for sanctioning a Junior Research Fellowship and providing financial aid in order to continue this research work.

While working in the fields of **‘Solution Chemistry’**, she not only sharpened her research area further, but also developed expertise on several other aspects of the research fields. Her hard work and understanding of the subject is evident from the list of publications appearing in well-reputed journals attached to her thesis. This is surely one of the best performances I have witnessed amongst my students.

I am quite impressed by her ability and talent especially at the time when she started working on **‘Solution Chemistry’** in our Department as a researcher. She is an exceptionally well-trained Chemist and can successfully apply her intuition and knowledge of Chemistry in solving major research challenges. She has the ability to think independently and analyze any problem related to the field.

I have known Lovely Sarkar for the past about five years and I can confidently make this statement that with all her qualities and depth of knowledge, she is a cut above the rest. I strongly recommend Lovely Sarkar for a better position in her future life.



Mahendra Nath Roy 22/03/2010
Dr. Mahendra Nath Roy

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