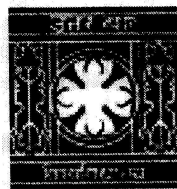


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CERTIFICATE

This is to certify that the thesis entitled “*Studies on the aggregation characteristics of selected surfactants and surface active ionic liquids*” submitted by Ms **Gulmi Chakraborty**, who got her name registered on 5th June, 2014 for the award of, Ph.D. (Science, new ordinance) degree of University of North Bengal, is absolutely based upon her own work under my supervision and that neither this thesis nor any part of it has been submitted for either any degree/diploma or any other academic award anywhere before.

A handwritten signature in black ink, appearing to read 'Dr. Saha', with a long horizontal stroke extending to the right.

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