

Certificate

This is to certify that the thesis entitled "Synthetic Studies on N-Aryl γ -Lactam & N-Aryl-thio γ -Lactam: Chemoselective Transformation to N-Aryl-Pyrrolidines, N-Aryl-Succinimides and other Bioactive Compounds" which is being submitted by Mrs. Gopa Barnan to the University of North Bengal, Raja Rammohanpur, Darjeeling for the award of the Doctor of Philosophy, is a record of bonafide research work carried out by her under our joint supervision and guidance.

In our opinion the thesis has fulfilled the requirements according to the regulations. To our knowledge these results have not been submitted for the award of any other degree or diploma.

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Certificate

This is to certify that all the regulation necessary for submission of the Ph. D. thesis of Gpoa Barman, have been fully observed.

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Dated: 2/12/09



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