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CERTIFICATE

This is to certify that the research work embodied in the thesis entitled "Allelopathic interferences of aquatic plants in the floodplain wetlands of West Bengal and their inductive inference on fish and harmful algal bloom - an experimental and statistical perspective" has been carried out by Miss Nabanita Chakraborty under the joint supervision of myself and Dr. Archan Kanti Das, Principal Scientist, ICAR - Central Inland Fisheries Research Institute (CIFRI), Barrackpore. The results have not been published by any other scientist / researchers.

This is also certifying that Miss Nabanita Chakraborty has fulfilled all the requirements of the Vidyasagar University Ph. D. regulations for submission of the thesis.

I am pleased to forward this thesis for consideration for the award of the Degree of Doctor of Philosophy in Science under Vidyasagar University.

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Dr. Archan Kanti Das Principal Scientist Dated: 2nd Feb, 2019

CERTIFICATE

It is certified that the work contained in the Ph.D. thesis entitled, "Allelopathic interferences of aquatic plants in the floodplain wetlands of West Bengal and their inductive inference on fish and harmful algal bloom - an experimental and statistical perspective" is a faithful and bonafide research work carried out by Miss Nabanita Chakraborty under the joint supervision of me and Dr. Basudev Mandal, Assistant Professor, Vidyasagar University, West Bengal. The work presented in this thesis has not been submitted for award of any degree or diploma earlier or elsewhere.

(ARCHAN KANTI DAS)

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डॉ. अर्चन कान्ति दाश/Dr. A. K. Das Principal Scientist भा.कृ.अनु.प.-के.अ भा.अन्य संस्थान ICAR-Central from Formation of the formation of t