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### *Certificate*

*This is to certify that the thesis entitled "Assessment of growth and nutrient status of indigenous fresh water catfish (*Clarias batrachus* Linn.) in relation to the application of newly isolated probiotics" submitted by Mr. Arindam Ganguly for the award of Ph.D. Degree in Microbiology, Faculty of Science, Vidyasagar University, is a record of bonafide investigation carried out and completed by him under joint supervision of myself and Dr. Asish Mandal, Associate Professor and Head, PG Dept. of Botany, Ramanada College, Bishnupur, Bankura, W.B. He has followed the rules and regulations as laid down by the University (Ph.D. Regulation, 2009). The results are original and have not been submitted anywhere for any other Degree or Diploma. The assistance, help and sources of information availed during the course of investigation have been duly acknowledged.*

  
(Dr. P. K. Das Mohapatra)

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