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<u>Certificate</u>

This is to certify that the research work embodied in this thesis entitled "Studies on the Stock structure, Reproductive Biology and Trophodynamics of Penaeus monodon (Fabricius) at Digha coast, West Bengal, India" has carried out by Sk Naser Uddin under my supervision and guidance. The content of this work, in full or parts have not been published by any workers for the award of any degree and diploma. He had followed the rules and regulation as laid down by Vidyasagar University for fulfillment of requirement for the degree of Doctor of Philosophy (Science). He had corrected his thesis as per adjudicators report and I have thoroughly checked his thesis and recommended for re-submission.

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This is to certify that the research work embodied in this thesis entitled "Studies on the Stock Structure, Reproductive biology and Trophodynamics of *Penaeus monodon* (Fabricus) at Digha coast, West Bengal, India" is an authentic record of research work that has been carried out by SkNaserUddin, who was a full-time research scholar of this institute under my guidance and supervision and no part of this results of research work has been presented for the award of any degree, diploma, associate ship, fellowship or any other similar title. He has followed the rules and regulations as laid down by the Vidyasagar University for fulfillment of the requirement for degree of Doctor of Philosophy (Science) from Vidyasagar University of Aquaculture Management & Technology. He has corrected his thesis as per Adjudicator report and I have thoroughly checked his thesis and recommended for re-submission.

Date 20/11/19

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