

CERTIFICATE

This is to certify that the research work presented in this thesis entitled “**MOLECULAR APPROACHES FOR CHARACTERIZATION AND DETERMINATION OF PATHOGENICITY OF VIBRIOS WITH SPECIAL REFERENCE TO *VIBRIO HARVEYI* FROM *PENAEUS MONODON* LARVAL PRODUCTION SYSTEMS**” is based on the original work done by Mrs. B.Sreelakshmi (Reg. No. 3071) under my supervision and guidance at National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi 682016, in partial fulfillment of the requirements for the award of the degree of **Doctor of Philosophy** and that no part of this work has previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar title or recognition.

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November 2011