

C E R T I F I C A T E

This is to certify that this Thesis is an authentic record of research work carried out by Mr. Basil Mathew, M.Sc., under my supervision and guidance in the Department of Marine Sciences for the Ph.D. Degree of the University of Cochin and no part of it has previously formed the basis for the award of any other degree in any University.



Dr. G. S. SHARMA
(Supervising Teacher)
Professor and Head
Department of Marine Sciences
University of Cochin

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