

# **Studies on Some Ecological Aspects of Manakkudy Estuary**

**Thesis submitted to the University  
of Kerala, Trivandrum for  
the degree of Doctor of Philosophy**

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## **Declaration**

I do hereby declare that this work has been originally carried out by me under the guidance and supervision of **Dr.P.Natarajan**, Professor and Head, Department of Aquatic Biology and Fisheries, University of Kerala, Trivandrum and that this work has not been submitted elsewhere for any other degree.

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*This is to certify that this thesis entitled **Studies on some Ecological aspects of Manakkudy Estuary**, submitted by **Mr.N. Arumugam** for the degree of Doctor of Philosophy to the University of Kerala, Trivandrum, is based on the results of studies carried out by him under my guidance and supervision. This thesis or any part of it has not been submitted elsewhere for any other degree.*

**Dr. P. Natarajan**  
**(Supervising Teacher)**

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