

## CERTIFICATE

This is to certify that the thesis entitled *Wind induced upwelling and the response of surface chlorophyll in the Bay of Bengal* is an authentic record of the research work carried out by Smt. Smitha A, under my supervision and guidance at the Department of Atmospheric Sciences, Cochin University of Science and Technology, in partial fulfillment of the requirements for the Ph. D. Degree of Cochin University of Science and Technology under the Faculty of Marine Sciences and that no part thereof has been submitted to any University or Institution for the award of any Degree or Diploma.

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