



KERALA UNIVERSITY OF FISHERIES & OCEAN STUDIES

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CERTIFICATE

This is to certify that the project work entitled "SYNTHESIZE AND CHARACTERIZATION OF SILVER NANO PARTICLES USING MANGROVE HUMIC ACIDS AND THE ROLE AS CATALYSTS IN THE DEGRADATION OF ORGANIC DYES " is an authentic record of the project work carried out by Ms. Reshma V V under my supervision and guidance at the Department of Aquatic Environment Management, Kerala University of Fisheries and Ocean Studies, Panangad, Kochi in partial fulfilment of the requirements for the award of degree of Master of Science of Sacred Heart College, Thevara affiliated to Mahatma Gandhi University, during the academic year 2017-2019

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