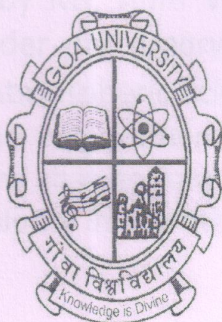


**Studies on diurnal and temporal variations in water  
quality and chlorophyll  $a$  at Dona Paula, Zuari estuary,  
Goa.**



Dissertation

Submitted to

**GOA UNIVERISTY**

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE  
DEGREE OF

**MASTER OF SCIENCE**

IN

**MARINE SCIENCE**

BY

**ADITI VINAYAK RENAKE**

School of Earth, Ocean & Atmospheric Sciences

Goa University, Taleigao plateau, Goa, India

**AUGUST, 2020**

## CERTIFICATE

This is to certify that this dissertation entitled as "Studies on diurnal and temporal variations in water quality and chlorophyll  $a$  at Dona Paula, Zuari estuary, Goa." is a bonafide and an authentic record of the research carried out by Ms. Aditi Vinayak Renake, student of M.Sc. Marine Science, under my supervision and guidance at the School of Earth, Ocean & Atmospheric Sciences, Goa University, Goa, in partial fulfilment of the requirement of M.Sc. Marine Science Degree of the University and that no part has been submitted before for any other degree or diploma in any other University.

Date: 14<sup>th</sup> Aug 2020



Prof. C.U.Rivonker

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