

**An understanding of the causes and response of various biotic components  
in Oxygen Minimum Zones (OMZs) of the Indian Ocean (IO) region**



Dissertation

Submitted To

**GOA UNIVERSITY**

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR

THE DEGREE OF

**MASTER OF SCIENCE**

IN

**MARINE SCIENCES**

BY

**MAHENDRA B. KAMBLI**

School of Earth, Ocean and Atmospheric Sciences

Goa University, Taleigão Plateau

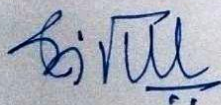
Goa, India


**MAY, 2022**

## CERTIFICATE

This is to certify that the dissertation entitled as “An understanding of the causes and response of various biotic components in Oxygen Minimum Zones (OMZs) of the Indian Ocean (IO) region” is a bonafide and an authentic record of the research carried out by Mr. Mahendra B. Kambli, student of M.Sc. Marine Science, under my supervision and guidance at the School of Earth, Ocean and Atmospheric Sciences, Goa University, Goa, in partial fulfillment 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: 04/05/2022



  
**Dr. Sheryl Oliveira Fernandes,**  
Assistant Professor, Marine Sciences,  
School of Earth, Ocean and Atmospheric Sciences,  
Goa University,  
Taleigão Plateau,  
Goa – 403206.

## DECLARATION

I hereby declare that the work incorporated in this dissertation, which is in partial fulfillment of the M.Sc. degree course, is original and carried out in the School of Earth, Ocean and Atmospheric Sciences, Goa University, Goa and it has not been submitted in any part or in full for any other degree or diploma of any other university.

Date: 04/05/2022

  
Mahendra B. Kambli