## The Variability of Chlorophyll-a Concentration in the North-East Indian Ocean in the Period from July 2002 to April 2022

A Dissertation for

Course code and Course Title: MSD 480 Dissertation

Credits: 8

Submitted in partial fulfillment of Master's Degree

MSc in Marine Sciences

by

## AVINASH DEEPAK VOLVOIKAR

Roll Number: 21P040021

Under the Supervision of / Mentor

DR. JOSHUA R. D'MELLO

School of Earth, Ocean and Atmospheric Sciences

Marine Sciences



Goa University

April 2023



Examined by:

DECLARATION BY STUDENT

I hereby declare that the data presented in this Dissertation report entitled " The

Variability of Chlorophyll-a Concentration in the North-East Indian Ocean in the

Period from July 2002 to April 2022" is based on the results of investigations carried

out by me in the Marine Sciences at the School of Earth, Ocean and Atmospheric

Sciences, Goa University under the Supervision/Mentorship of Dr. Joshua R. D'Mello

and the same has not been submitted elsewhere for the award of a degree or diploma

by me. Further, I understand that Goa University or its authorities will be not be

responsible for the correctness of observations / experimental or other findings given

the dissertation.

I hereby authorize the University authorities to upload this dissertation on the

dissertation repository or anywhere else as the UGC regulations demand and make it

available to any one as needed.

(Aldvoikay Avinash Deepak Volvoikar

Seat No.: 21P040021 MSc. Marine Sciences

School of Earth, Ocean and

Atmospheric Sciences

Date: 219th April 2023

Place: Goa University

## COMPLETION CERTIFICATE

This is to certify that the dissertation / internship report "The Variability of Chlorophyll-a Concentration in the North-East Indian Ocean in the Period from July 2002 to April 2022" is a bonafide work carried out by Mr. Avinash Deepak Volvoikar under my supervision/mentorship in partial fulfilment of the requirements for the award of the degree of Master of Science in the Discipline of Marine Sciences at the School of Earth, Ocean and Atmospheric Sciences, Goa University.

Date: 21st of April, 2023

Dr. Joshua R. D'Mello Marine Sciences

School Stamp

Sr. Prof. C. U. Rivonker

Senior Professon And Dean

Marine Sciences

School of Earth, Ocean and Atmospheric Sciences

Date: 20 04 2029 Place: Goa University