

**SPECIATION OF METALS IN MANGROVE AND MUDFLAT
SEDIMENT OF THE AGHANASHINI ESTUARY,
KARNATAKA, WEST COAST OF INDIA TO STUDY METAL
BIOAVAILABILITY AND TO DETERMINE THE
ACCUMULATION OF METALS IN THE SEDIMENT
ASSOCIATED BIOTA**



Dissertation

Submitted To

GOA UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR

THE DEGREE OF

MASTER OF SCIENCE

IN

MARINE SCIENCE

BY

ABHIRAJ SINGH G. BHATTI

School of Earth, Ocean and Atmospheric Sciences

Goa University, Taleigao Plateau

Goa, India

APRIL, 2022

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: 25/04/2022



Abhirajsinh G. Bhatti

CERTIFICATE

This is to certify that the dissertation entitled as “**Speciation of metals in mangrove and mudflat sediment of the Aghanashini Estuary, Karnataka, West Coast of India to study metal bioavailability and to determine the accumulation of metals in the sediment associated biota**” is a bonafide and an authentic record of the research carried out by Mr. Abhirajsinh G. Bhatti, 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: 25/04/2022

Abhiraj



Dr. M. R. Nasnodkar

Assistant Professor
Marine Science
School of Earth, Ocean and
Atmospheric Sciences,
Goa University
Goa – 403206