

**ANALYSIS OF HUMAN PATHOGENIC BACTERIA AND NUTRIENT QUALITY  
OF SEAWATER SURROUNDING CHORAO ISLAND**



**PROJECT REPORT**

Submitted in the partial fulfillment of the  
requirement of the  
degree of Master of Science in Marine Microbiology  
to the Goa University

By

**Mr. Shivam Chodankar (20P0390003)**

M.Sc.

Marine Microbiology

2021-2022

Under guidance of

**Dr. Varada S. Damare**

**School of Earth, Ocean and Atmospheric Sciences  
Goa University, Taleigao Plateau  
Goa, India  
2022**

### CERTIFICATE

This is to certify that project entitled ANALYSIS OF HUMAN PATHOGENIC BACTERIA AND NUTRIENT QUALITY OF SEAWATER SURROUNDING CHORAO ISLAND Submitted to GOA UNIVERSITY is a bonafide and authentic record of research carried out by Mr. Shivam Chodankar, student of M.Sc. Marine Microbiology. It is a record of work done by the candidate under my guidance at the **School of Earth, Ocean and Atmospheric Sciences** Goa University, Goa, in partial fulfillment of requirement of Marine Science Degree of the Goa University and that no part has been submitted before for any other degree or diploma in any other University.

Date: 04/05/2022

The final copy of this dissertation has not been corrected by me due to late submission of the same, for the reasons best known to the student.

**Dr. Varada S. Damare**

Assistant Professor  
Marine Microbiology,  
School of Earth, Ocean and  
Atmospheric Sciences,  
Goa University,  
Taleigao Plateau, Goa

### DECLARATION

I hereby declare that the project entitled “**ANALYSIS OF HUMAN PATHOGENIC BACTERIA AND NUTRIENT QUALITY OF SEAWATER SURROUNDING CHORAO ISLAND**” which is in partial fulfillment of 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 submitted in any part or in full for any other degree or diploma of any other university.

Date: 4/05/2022

Place: Goa University

Taleigao, Goa

  
Shivam Chodankar