

ACKNOWLEDGEMENT



I desire this to be a unique opportunity to record my profound sense of gratitude, respectful regard, and indebtedness to my respected guide and supervisor, Dr. Amisha Maharana, Department of Bioscience and Biotechnology, Fakir Mohan University, Odisha, India; for her guidance, support, and ceaseless encouragement throughout my research investigation.

I express my gratitude to all the respected faculties of my Department, Dr. Elasa Panda (HOD), P.G. Department of Bioscience and Biotechnology, Fakir Mohan University, Vyasa Vihar, Balasore-756020, Odisha. Phone: (91)6782-275810, Email -biotech\_fmuni@gmail.com, Website-www.fmuniiversity.nic.in. I also wish to express my heartfelt thanks to my lab members, Mr. Dibya Ranjan Das, and Mr. Manoj Panda for their cooperation and suggestions during my project work.

I extend my thanks to all non-teaching staff and research scholars of the Department of Biosciences and Biotechnology, Fakir Mohan University, Odisha, for their innumerable support and cooperation.

### CERTIFICATE

This is to certify that the research work presented in the thesis entitled **“Evaluating the Impact of Heavy Metal Stress on Bacteria, Isolated from the coastal area of Balasore”** submitted to Fakir Mohan University, Balasore in partial fulfillment of the requirements for the award of Degree of M.Sc. Biotechnology is a record of original research work done by **Amisha Maharana** during the period of her study in the Department of Bioscience and Biotechnology, Fakir Mohan University under my guidance and supervision.

The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

Date: 13/5/2024

*Amisha*  
13/5/24

Signature of the HOD

HEAD

Dept. of Biosciences & Biotechnology,  
F.M. University, Vyasa Vihar  
Nuapadhi, Balasore-89, Odisha