# ABIOTIC STRESS MANAGEMENT IN TOMATO PLANTS BY 1-AMINOCYCLOPROPANE-1-CARBOXYLIC ACIDDEAMINASE PRODUCING RHIZOBACTERIA

Dissertation submitted to the
DEPARTMENT OF STUDIES IN BIOTECHNOLOGY
UNIVERSITY OF MYSORE

In partial fulfilment of the requirements for the award of the degree of

# MASTER OF SCIENCE IN BIOTECHNOLOGY

Submitted by

# DHANASHREE VIJAYRAO BOMLE

Registration Number: BT119115

Under the guidance of

Prof. S. R. NIRANJANA FNASC., FNAAS, FNABS, FPSI, FISMPP

UGC-BSR faculty fellow
Distinguish Professor (Life-Long)
Former Vice-Chancellor, Gulbarga University
Department of Studies in Biotechnology, Manasagangothri
University of Mysore, Mysuru-570006



### UNIVERSITY OF MYSORE DEPARTMENT OF STUDIES IN BIOTECHNOLOGY MANASAGANGOTHRI, MYSURU - 570006

Prof. S. R. NIRANJANA FNASC, FNAAS, FNABS, FPSI, FISMPP UGC-BSR faculty fellow Distinguish Professor (Life-long)

Email: srn@appbot.uni-mysore.ac.in niranjanasr@rediffmail.com

### CERTIFICATE

This is to certify that the dissertation project work entitled "Abiotic Stress Management in Tomato Plants by 1- Aminocyclopropane-1-Carboxylic Acid Deaminase Producing Rhizobacteria" submitted to the Department of Studies in Biotechnology, University of Mysore, Manasagangothri, Mysore - 570 006, in partial fulfillment of the requirements for the award of the degree of Masters of Science in Biotechnology, is a record of the original work carried out by Ms. Dhanashree Vijayrao Bomle, under my guidance and supervision at the Department of Studies in Biotechnology, for the duration of March to October 2021.

(Prof. S. R. Niranjana)

Place: Mysore

Date:

Department of Studies in Biotechnology University of Mysore, Manasagangotri

Mysuru - 570 006