

**ALLEVIATION OF BIOTIC AND ABIOTIC STRESSES
IN *CAJANUS CAJAN* USING BACTERIAL
CONSORTIUM**

A THESIS SUBMITTED TO

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY IN MICROBIOLOGY

BY

MANSI AGRAWAL



DEPARTMENT OF MICROBIOLOGY AND BIOTECHNOLOGY CENTRE

FACULTY OF SCIENCE

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

VADODARA – 390002, GUJARAT

INDIA

December 2021

**ALLEVIATION OF BIOTIC AND ABIOTIC STRESSES
IN *CAJANUS CAJAN* USING BACTERIAL
CONSORTIUM**

A THESIS SUBMITTED TO

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
(Microbiology)

Guided By:

Prof. G. Archana

Submitted By:

Mansi Agrawal

DEPARTMENT OF MICROBIOLOGY AND BIOTECHNOLOGY CENTRE

FACULTY OF SCIENCE

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

VADODARA – 390002, GUJARAT

INDIA

December 2021