

# KARNATAK UNIVERSITY, DHARWAD



## Certificate

EXAM SEAT NO. 14S15031

DATE: 3/6/2016

This is to certify that the dissertation entitled “**DETERGENT ACTIVITY OF MICROBIAL ENZYMES**” submitted by **Mr. Shivrudrappa S. Gaded** as partial fulfilment for the degree of Master of Science in Microbiology is based on the actual results of the experiments carried out by me at **P.G Department of Studies in Biotechnology and Microbiology, Karnatak University, Dharwad** for the academic year 2015-2016. This work has not been previously submitted for any diploma or degree course, elsewhere.

Staff member in- Charge

1.

2.

**VALUED**

**1. EXAMINER**

**2. EXAMINER**

Examiners

1.

2.

Chairman

Chairman

P.G Department of Studies  
in Microbiology & Biotechnology  
Karnatak University, Dharwad

# KARNATAK UNIVERSITY, DHARWAD



'A' Grade  
NAAC Accredited 2008  
UNIVERSITY WITH POTENTIAL  
FOR EXCELLENCE

## CERTIFICATE

Registration No. : 14S15024

Date: 3/06/16

This is to certify the dissertation of project work "*Effective use of microbes in biodegradation of waste*" submitted by Ms. RAHEELA R. JAHAGIRDAR for the partial fulfilment of the **Degree in Master of Science in Microbiology** is based on the results of experiments carried out by him at **Department of Biotechnology and Microbiology, Karnatak University, Dharwad** for the academic year 2015 – 2016. The dissertation or a part there of has not been previously submitted for any diploma and degree course.

Staff Member In-Charge

Chairman

VALUED  
1. EXAMINER  
2. EXAMINER

Chairman  
P. G. Department of Studies  
in Microbiology & Biotech. D. K. J.  
Dharwad - 580 005

# KARNATAK UNIVERSITY, DHARWAD



## CERTIFICATE

Reg no. : 14S15007, 14S15008,

14S15009, 14S15010,

14S15011, 14S15012

Date: 03/06/2016

This is to certify that the dissertation of project work **"ISOLATION, SCREENING AND OPTIMIZATION OF L-GLUTAMINASE FROM SOIL FUNGI"** submitted by **Microbiology semester IV Batch II** for the partial fulfillment of the **Degree in Master of Science in Microbiology** is based on the result of experiment carried out by them at the **Department of Biotechnology and Microbiology, Karnatak University, Dharwad** for the academic year 2015-2016. The dissertation or a part there of has not been submitted for any other degree, award or prize either in this or any other University.

Project Supervisors

Examiner

Chairman

1.

2.

Dr. Amritika J. Kulkarni

Chairman

P. G. Department of Studies  
in Microbiology & Biotechnology  
K. U. DHARWAD.

VALUED  
1. EXAMINER  
2. EXAMINER

# KARNATAK UNIVERSITY, DHARWAD



*"University with potential for excellence"*

## CERTIFICATE

Register No. 14S15001

Date:

3/6/2016

This is to certify that this dissertation entitled "SCREENING OF VARIOUS MILK SAMPLES IN DHARWAD FOR DETECTION OF AFLATOXIN M1" submitted by Miss. Afreen .H. Budihal for the partial fulfillment of Degree of Master of Science in Microbiology is based on the result of experiment carried out by her at Post-Graduate Department of Studies in Microbiology and Biotechnology, Karnatak University, Dharwad for the academic year 2015-2016. The project work or a part, there off has not been previously submitted for any degree or diploma.

Staff Member In charge

Examiner

Chairman  
Chairman

P. G. Department of Studies  
In Microbiology & Biotechnology  
K. U. DHARWAD

1.

2.

13/05/16

VALUED

1. EXAMINER

2. EXAMINER

  
3/6/16

# KARNATAK UNIVERSITY DHARWAD



Re-accredited by NAAC 'A' Grade University with Potential for  
Excellence

## CERTIFICATE

Registration No. 15S15011, 15S15014, 15S15020  
15S15031, 15S15033.

Date: 12/05/2017

This is to certify that the dissertation entitled "EXPLAINING MICROBIAL  
CEL-CELL INTERACTIONS" submitted by **Microbiology IV Semester batch  
VI** for partial fulfilment of the **Degree in Master of Science in Microbiology** is  
based on the actual results of the experiments carried out by us at **P.G Department of  
Studies in Microbiology and Biotechnology, Karnataka University, Dharwad** for  
the academic year 2016-2017.

Staff member in-Charge Examiners

1.

*[Signature]*  
12/5

1.

2.

VALUED

1. EXAMINER

2. EXAMINER

2.

*[Signature]*  
19/5/17

Chairman

P. G. Department of Studies  
in Microbiology & Biotechnology  
K.U. Dharwad

# KARNATAK UNIVERSITY, DHARWAD



'A' Grade

NAAC Accredited 2008 & 2015

## CERTIFICATE

Registration No. : 15S15004, 15S15007, 15S15008, Date:


15S15010, 15S15024


This is to certify that the dissertation of project work entitled "Wastewater Treatment Using Immobilized Microalgae *Chlorella vulgaris* and *Scenedesmus abundans*" submitted by Microbiology semester IV Batch IV for the partial fulfilment of the Degree in Master of Science in Microbiology is based on the results of the experiments carried out by them at The Department of Biotechnology and Microbiology, Karnatak University, Dharwad for the academic year 2016-2017. The dissertation or a part of it has not been previously submitted for any other diploma and degree course.

Project Supervisors

  
Chairman

Chairman  
P. G. Department of Studies  
in Microbiology & Biotechnology  
K.U. Dharwad

1.  11/05/2017

2.   
**VALUED**  
**EXAMINER**  
2. EXAMINER

 19/5/2017

# KARNATAK UNIVERSITY, DHARWAD.

POST GRADUATE DEPARTMENT OF STUDIES IN MICROBIOLOGY AND  
BIOTECHNOLOGY, KARNATAK UNIVERSITY, DHARWAD.



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University with Potential for Excellence


## CERTIFICATE

Registration No: 16S15034

Date: 17/5/2018



This is to certify the dissertation of project work entitled  
"Screening of phytochemicals and pharmacological evaluation of  
*Chlorella sorokiniana* KU202" submitted by Ms. SUMA NAVALGUND  
for the partial fulfillment of the Degree in Master of Science, in  
Microbiology is based on the results of experiment carried out by her at  
Department of Microbiology and Biotechnology, Karnatak University,  
Dharwad for the academic year 2017-2018. The dissertation as a part  
there of has not been previously submitted for any Diploma and Degree  
course.

Staff Member In-Charge

1.  13/05/2018

2.  16/05/18

  
Chairman  
P. G. Department of Studies  
in Microbiology & Biotechnology  
K.U. Dharwad

Examiners  
1.   
2. 

# KARNATAK UNIVERSITY, DHARWAD



"University with Potential for Excellence"

## Certificate

Date: 17/5/18

This is to certify that the dissertation of project work entitled "**Isolation and characterization of bioactive compounds from *Aspergillus niger* and their therapeutic applications**". Submitted for the partial fulfilment of the **Degree in Master of Science in Microbiology** is based on the results of experiments carried out by her/him at **P. G. Department of Biotechnology and Microbiology, Karnatak University, Dharwad** for the academic year 2017-2018. The dissertation or a part there of has not been previously submitted for any diploma and degree course.

Submitted by:

Ms. Ibtesam Killedar (16S15016)

Staff Member In-Charge

1. 
2.   
(Ch. Anuritha G.K.)

  
Chairman

CHAIRMAN  
P.G. Dept of Biotechnology  
and Microbiology  
Karnataka University Dharwad

# KARNATAK UNIVERSITY, DHARWAD.

POST GRADUATE DEPARTMENT OF STUDIES IN MICROBIOLOGY AND  
BIOTECHNOLOGY, KARNATAK UNIVERSITY, DHARWAD



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University with Potential for Excellence

## Certificate

Registration No: 16S15027

Date: 17/5/2018

This is to certify the dissertation of project work "BIOABSORPTION OF ZINC AND LEAD BY *Pseudomonas fragi* MB\_BHM2 STRAIN ISOLATED FROM HEAVY METAL CONTAMINATED SOIL" submitted by **Mr. Sachin S Kelageri**, for the partial fulfillment of the Degree in **Master of Science, in Microbiology** is based on the results of experiment carried out by him at **Department of Microbiology And Biotechnology, Karnatak University, Dharwad** for the academic year 2017-2018. The dissertation as a part there of has not been previously submitted for any Diploma and Degree course.

Staff Member In-Charge

- 1.
- 2.

Chairman  
CHAIRMAN  
P.G. Dept of Biotechnology  
and Microbiology  
Karnataka University Dharwad

# KARNATAK UNIVERSITY, DHARWAD



"University with Potential for Excellence"

## Certificate

Date: \_\_\_\_\_

This is to certify that the dissertation of project work entitled "Isolation and characterization of bioactive compounds from *Aspergillus niger* and their therapeutic applications". Submitted for the partial fulfilment of the Degree in Master of Science in Microbiology is based on the results of experiments carried out by her/him at P. G. Department of Biotechnology and Microbiology, Karnatak University, Dharwad for the academic year 2017-2018. The dissertation or a part there of has not been previously submitted for any diploma and degree course.

Submitted by:

Mr. Ashish Anil Gudigar (16S15005)

Staff Member In-Charge

1.

2.

(Dr. Anuritha. G. K.)

  
Chairman

**CHAIRMAN**  
P.G. Dept of Biotechnology  
and Microbiology  
Karnatak University, Dharwad

# KARNATAK UNIVERSITY, DHARWAD



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## CERTIFICATE

Registration No. : 16S15019

Date: 16/5/18

This is to certify that the dissertation entitled "**INFLUENCE OF NUTRIENTS ON PYOCYANIN PRODUCTION BY *Pseudomonas aeruginosa* AND ITS DIVERSE APPLICATION**" submitted by **Mr. NAVEENA. K.** for the fulfilment of the project is based on the results of experiments carried out by him at **P. G. Dept. of Studies in Biotechnology & Microbiology, Karnatak University, Dharwad.** For the academic year 2017– 2018. The dissertation or a part there of has not been submitted for any other degree, award or prize either in this or any other University.

Faculty Member In-Charge

1. [Signature] 14/5/18
2. JG 14/5/18

- Examiner
1. [Signature]
  2. [Signature]

[Signature]  
Chairman

P. G. Department of Studies  
In Microbiology & Biotechnology  
K.U. Dharwad

# KARNATAK UNIVERSITY, DHARWAD



"University with Potential for Excellence"

## Certificate

Registration No. : 16S15006

Date: 13-05-2018

This is to certify that the dissertation of project work entitled "FORMULATION AND EVALUATION OF ANTIMICROBIAL ACTIVITY OF *PUNICA GRANATUM* L. PEEL EXTRACT AS A HAND SANITIZER" submitted by Mr. Azharuddin A. Noorjinaik for the partial fulfilment of the Degree in Master of Science in Microbiology is based on the results of experiments carried out by him at Department of Biotechnology and Microbiology, Karnatak University, Dharwad for the academic year 2017- 2018. The dissertation or a part there of has not been previously submitted for any diploma and degree course.

  
Staff Member In-Charge

  
Chairman  
CHAIRMAN  
P.G. Dept of Biotechnology  
and Microbiology  
Karnataka University Dharwad

# KARNATAK UNIVERSITY, DHARWAD



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## Certificate

Registration No. : 16S15002

Date: 13/5/18

This is to certify that the dissertation of project work entitled  
**"ISOLATION AND CHARACTERISATION OF MICROORGANISMS  
FROM STREET FOODS OF DHARWAD"** submitted for the partial  
fulfilment of the **Degree of Master of Science in Microbiology** is based on the  
results of the experiments and findings carried out by me at the **Department of  
Microbiology and Biotechnology, Karnatak University, Dharwad** during the  
academic year 2017-2018. The dissertation in full or a part of the dissertation  
has not been previously submitted for any diploma or degree elsewhere.

  
13/5

Staff Member In-Charge

  
Chairman

P. G. Department of Studies  
in Microbiology & Biotechnology  
K. U. Dharwad

# KARNATAK UNIVERSITY, DHARWAD.

POST GRADUATE DEPARTMENT OF STUDIES IN MICROBIOLOGY AND  
BIOTECHNOLOGY, KARNATAK UNIVERSITY, DHARWAD



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University with Potential for Excellence

## Certificate

Registration No: 16S15028

Date: 17/5/2018

This is to certify the dissertation of project work "**BIOABSORPTION OF ZINC AND LEAD BY *Pseudomonas fragi* MB\_BHM2 STRAIN ISOLATED FROM HEAVY METAL CONTAMINATED SOIL**" submitted by **Ms. Savitri P Murgod**, for the partial fulfillment of the Degree in **Master of Science, in Microbiology** is based on the results of experiment carried out by him at **Department of Microbiology And Biotechnology, Karnatak University, Dharwad** for the academic year 2017-2018. The dissertation as a part there of has not been previously submitted for any Diploma and Degree course.

Staff Member In-Charge

- 1.
- 2.

Examiner

1.

2.

CHAIRMAN  
P.G. Dept of Biotechnology  
and Microbiology  
Karnataka University Dharwad

# KARNATAK UNIVERSITY, DHARWAD.

POST GRADUATE DEPARTMENT OF STUDIES IN MICROBIOLOGY AND  
BIOTECHNOLOGY, KARNATAK UNIVERSITY, DHARWAD.



Re-accredited by NAAC 'A'  
Grade University with Potential for Excellence

## CERTIFICATE

Registration No: 16S15024

Date:

This is to certify the dissertation of project work entitled "Screening of phytochemicals and pharmacological evaluation of *Chlorella sorokiniana* KU202" submitted by Mr. PRAVEEN HUGAR for the partial fulfillment of the Degree in Master of Science, in Microbiology is based on the results of experiment carried out by him at Department of Microbiology and Biotechnology, Karnatak University, Dharwad for the academic year 2017-2018. The dissertation as a part there of has not been previously submitted for any Diploma and Degree course.

Staff Member In-Charge

1.  13/05/2018

2.  14/05/18.

  
Chairman

P. G. Department of Studies  
in Microbiology & Biotechnology  
K.U. Dharwad

Examiners

1. 

2. 

# KARNATAK UNIVERSITY, DHARWAD



"University with Potential for Excellence"

## Certificate

Date: 17/05/2018

This is to certify that the dissertation of project work entitled "**Isolation and characterization of bioactive compounds from *Aspergillus niger* and their therapeutic applications**". Submitted for the partial fulfilment of the **Degree in Master of Science in Microbiology** is based on the results of experiments carried out by her/him at **P. G. Department of Biotechnology and Microbiology, Karnatak University, Dharwad** for the academic year 2017-2018. The dissertation or a part there of has not been previously submitted for any diploma and degree course.

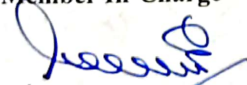
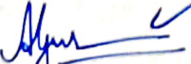
Submitted by:

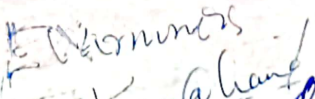
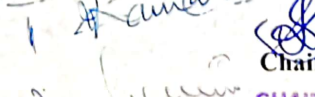
Mr. Tilak Budni (16S15035)

Staff Member In-Charge

1.

2.

  
  
(Dr. Anurita G.K.)

  
  
CHAIRMAN  
P.G. Dept of Biotechnology  
and Microbiology  
Karnataka University Dharwad

# KARNATAK UNIVERSITY, DHARWAD.

POST GRADUATE DEPARTMENT OF STUDIES IN MICROBIOLOGY AND  
BIOTECHNOLOGY, KARNATAK UNIVERSITY, DHARWAD.



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University with Potential for Excellence

## CERTIFICATE

Registration No: 16S15037


Date:

This is to certify the dissertation of project work entitled  
"Screening of phytochemicals and pharmacological evaluation of  
*Chlorella sorokiniana* KU202" submitted by Ms.VIJAYALAXMI  
LAKSHMESHVAR for the partial fulfillment of the Degree in Master  
of Science, in Microbiology is based on the results of experiment carried  
out by her at Department of Microbiology and Biotechnology, Karnatak  
University, Dharwad for the academic year 2017-2018. The dissertation  
as a part there of has not been previously submitted for any Diploma  
and Degree course.

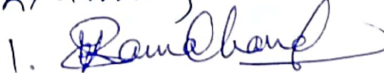
Staff Member In-Charge

  
Chairman

1.  13/05/2018

2.  16/05/18

Examining

1. 

2. 

Chairman  
P. G. Department of Studies  
in Microbiology & Biotechnology  
K.U. Dharwad

# KARNATAK UNIVERSITY, DHARWAD



"University with Potential for Excellence"

## Certificate

Registration No. : 18S15011, 18S15013, 18S15015

18S15020, 18S15026, 18S15035

Date: 16/10/2020

This is to certify that the dissertation of project work entitled "Elicitation of histopathological defence marker in trichoderma induced brinjal and chilli plants" submitted by Manjunath Kalakatti, Mayawati S Kamble, Mohsina Banu Lohar, Nikhil D Nayak, Shahana Banu Moghulart, and Sookta Ganapati Naik for the partial fulfilment of the Degree in Master of Science in Microbiology is based on the results of experiments carried out by me at Department of Biotechnology and Microbiology, Karnatak University, Dharwad for the academic year 2019- 2020. The dissertation or a part there of has not been previously submitted for any diploma and degree course.

Project supervisors

1.

2.

*[Signature]*  
15/10/2020

**VALUED**  
**1. EXAMINER**  
**2. EXAMINER**

*[Signature]*

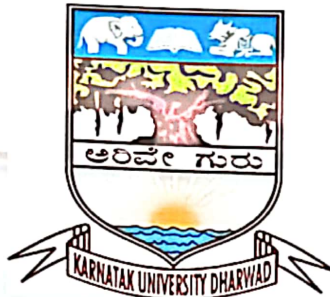
**Chairman**

**Chairman**

**P. G. Department of Studies  
in Microbiology & Biotechnology  
K.U. Dharwad**

*[Signature]*

# KARNATAK UNIVERSITY, DHARWAD



Re-accredited by NAAC "A" Grade  
"University with Potential for Excellence"

## CERTIFICATE

Registration No.: 18S15003, 18S15007  
18S15017, 18S15029

Date: 16/10/2020

is to certify that the Dissertation entitled "Isolation, screening and partial purification of fungal laccase" submitted for the partial fulfillment of the degree of Master of Science in Microbiology is based on the results of the experiments and findings carried out by us at the P. G. Department of Studies in Biotechnology and Microbiology, Karnatak University, Dharwad during the academic year 2019-2020. The dissertation in full or a part of the dissertation has not been previously submitted for any other degree, award or prize either in or any other University.

Faculty Member In-Charge

- 1.
- 2.

Chairman

P. G. Department of Studies  
in Microbiology & Biotechnology  
K. U. Dharwad

VALUED

1. EXAMINER

2. EXAMINER

# KARNATAK UNIVERSITY, DHARWAD



Re-accredited by NAAC "A" Grade  
"University with Potential for Excellence"

## CERTIFICATE

DATE:

This is to certify that the dissertation of project work entitled **"A Study of Probiotic Micro flora from raw milk and confer their health benefits"** submitted for the partial fulfillment of the degree of **Master of Science in Microbiology** is based on the results of the experiments and findings carried out by them at the **P. G. Department of Studies in Biotechnology and Microbiology, Karnatak University, Dharwad** during the academic year 2019-2020. The dissertation in full or a part of the dissertation has not been previously submitted for any other degree, award or prize either in this or any other University.

Submitted by:

Mr. Akshay. Joshi	Reg. No.: 18S15002
Ms. Ashwini. A. Chipkar	Reg. No.: 18S15004
Ms. Faridabanu. R. Nadaf	Reg. No.: 18S15006
Ms. Gayatri. Aiholli	Reg. No.: 18S15008
Ms. Pavitra. Madiwalar	Reg. No.: 18S15021
Ms. Pooja. Aravalli	Reg. No.: 18S15022
Mr. Sharatbabu. M. Shreegani	Reg No.: 18S15027

*Akshay Joshi*  
*Ashwini A. Chipkar*  
*Faridabanu R. Nadaf*  
*Gayatri Aiholli*  
*Pavitra M. Madiwalar*  
*Pooja A. Aravalli*  
*Sharatbabu M. Shreegani*

Faculty Member In-Charge

1.

2.

*M. S. Shreegani*

VALUED

1. EXAMINER

2. EXAMINER

*M. S. Shreegani*

Chairman

Chairman

P. G. Department of Studies  
in Microbiology & Biotechnology  
K. U. Dharwad

*Shreegani* 16/10/2020

# KARNATAK UNIVERSITY, DHARWAD



Accredited by NAAC with "A" Grade  
"University with Potential for Excellence"

## CERTIFICATE

Date: 16/10/2020

This is to certify that dissertation of the project work entitled "Isolation and characterization of endophytic fungi from *Hemidesmus indicus*" submitted for the partial fulfilment of the degree of Master of Science in Microbiology is based on the results of experiments carried out at P. G. Department of Studies in Microbiology and Biotechnology, Karnatak University, Dharwad for the academic year 2019-20. The dissertation or a part of this work has not been previously submitted for the award of any other degree or diploma either in this or any other University.

Submitted by:

C B SANKETH	Reg. No: 18S15005
HEFATH TASKEEN	Reg. No: 18S15009
MEGHA CHOUGULE	Reg. No: 18S15014
MUTTURAJ ADIN	Reg. No: 18S15016
PRATIMA BHOPALE	Reg. No: 18S15023
ROSHINI NAIK	Reg. No: 18S15024
VINAYAK KESARKAR	Reg. No: 18S15039

Project Supervisors

1)

2)

VALUED  
1. EXAMINER

2. EXAMINER

Chairman  
Chairman

P. G. Department of Studies  
in Microbiology & Biotechnology  
K.U. Dharwad

16/10/2020

# KARNATAK UNIVERSITY, DHARWAD



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"University with Potential for Excellence"

## CERTIFICATE

Name	Registration No.
Mr. Nayaz Ahamed	18S15019
Mr. Shashidhar	18S15028
Ms. Shobha Gondhali	18S15032
Ms. Shraddha S.Chavan	18S15033
Ms. Shweta	18S15034
Mr. Vijaya kumar	18S15040

This is to certify that the Dissertation entitled "An Approach for Biological transformation of L-tyrosine to L-Dopa by *Bacillus* sp." submitted for the partial fulfillment for the degree of Master of Science in Microbiology is based on the results of the experiments and findings carried out by us at the Department of Biotechnology and Microbiology, Karnatak University, Dharwad during the academic year 2019-2020. The Dissertation has not been previously submitted for any diploma or degree elsewhere.

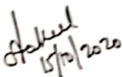
  
Chairman

### Project Guides

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2.

  
15/12/2020

# KARNATAK UNIVERSITY, DHARWAD



"University with potential for excellence"

## Certificate

Date: 16-10-2020

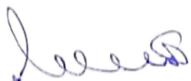

This is to certify that the dissertation entitled **"Isolation, Screening and partial purification of laccase producing bacteria"** submitted for the fulfilment of project is based on the results of experiments carried out by her at **P.G. Dept. of studies in Biotechnology and Microbiology, Karnatak University, Dharwad** for the academic year 2019-2020. The dissertation has not been submitted anywhere else for any degree, award or prize either in this or any other University.

Miss Madhu Bhattangi (18S15013)

Miss Shilpa B. Naik (18S15030)

Miss Sumathi Biradar (18S15036)

Faculty Member In-Charge

1. 
2. 



Chairman

Chairman

P. G. Department of Studies  
in Microbiology & Biotechnology  
K.U. Dharwad

**VALUED**

1. EXAMINER 

2. EXAMINER

# KARNATAK UNIVERSITY, DHARWAD



*Re-accredited by NAAC 'A' Grade*

## Certificate

Date

This is to certify that the dissertation of project work "Isolation and Screening of Dye Degrading Bacteria from Printing Press Effluent" submitted for the partial fulfilment of the Degree in *Master of Science in Microbiology* is based on the results of experiments carried out by us at *P.G Department of Biotechnology and Microbiology, Karnatak University, Dharwad* for the academic year 2020-2021. The dissertation or a part there of has not been previously submitted for any diploma and degree course.

### Submitted by:

- 1] Mr.A.M.Akshaykumar (19S15001)
- 2] Mr.Akshay.Mahaveer.Chougale (19S15003)
- 3] Miss. Nikita .Bidre (19S15020)
- 4] Miss. Pooja.N.Sunagar (19S15023)
- 5] Miss.Sindhoora .Hegde (19S15033)
- 6] Mr. Viresh .Sharanappa.Shivamurti (19S15040)

Project supervisor

1.

2.

VALUED  
1. EXAMINER  
2. EXAMINER

*Oshimth*

Chairman

Chairman

P. G. Department of Studies  
in Microbiology & Biotechnology  
K.U. Dharwad

# KARNATAK UNIVERSITY, DHARWAD



"University with potential for Excellence"

## CERTIFICATE

Date: 04/10/2021

This is to certify that the dissertation entitled "BIODEGRADATION OF PESTICIDES BY SOIL MICROFLORA" submitted for the partial fulfilment of the DEGREE in MASTER of SCIENCE in Microbiology is based on the results of experiments carried out at P. G. Dept. of Studies in Biotechnology & Microbiology, Karnatak University, Dharwad For the academic year 2019-2021. The dissertation or a part there of has not been submitted for any other degree, award or prize either in this or any other University.

### SUBMITTED BY:

Ms. Ashwini Karade (19S15005)

Ms. Pratiksha Rane (19S15024)

Ms. Bhagyalaxmi M. K (19S15006)

Ms. Prema (19S15025)

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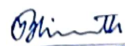
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Date: 21-09-2021

This is to certify that the dissertation of project work entitled "ISOLATION AND SCREENING FOR PHOSPHATE SOLUBILIZATION AMONG SOIL BORNE FUNGI" submitted for the partial fulfilment of the degree of Master of Science In Microbiology is based on the review, results of the experiments and findings carried out by us at the Department of Biotechnology and Microbiology, Karnatak University, Dharwad during the academic year 2020-2021. The dissertation in full or a part of the dissertation has not been previously submitted for any diploma or degree elsewhere.

  
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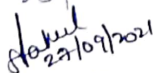
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This is to certify the dissertation of project work called **"ISOLATION, ENUMERATION AND CHARACTERISATION OF PROTEOBACTERIA FROM *Palaemon SHRIMP*"** submitted for the partial fulfilment of the degree in **Master of Science In Microbiology** is based on result of experiments carried out by them at the department of studies in **Biotechnology and Microbiology**, Karnatak University, Dharwad for the academic year 2020-2021. The dissertation or a part has not been submitted for any other degree award or prize either in this or any other university.

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