



**Mangalore**

**University**

**DEPARTMENT OF BIOSCIENCES**

**MANGALAGANGOTRI – 574199**

**CERTIFICATE**

This is to certify that the project entitled **ACTION OF BRAUN LIPOPROTEIN-LIKE MOLECULE ON MICROGLIAL AND SPLENIC LYMPHOCYTES ACTIVATION** submitted by **Ms. Abhina K** under the guidance of **Dr. Monika Sadananda** towards the partial fulfilment of **M.Sc. degree in Biosciences** contains the result of the genuine project work carried out by her during the academic year 2021-2022. I declare that this dissertation or a part there of has not been the basis for any degree or diploma.

Place: Mangalagangotri

Date: 10/10/2022

*Dr. Monika Sadananda*

**Dr. Monika Sadananda**

Professor

Department of Biosciences

Mangalore University

Mangalagangotri

*Dr. Monika Sadananda*

Professor

Department of Biosciences

MANGALORE UNIVERSITY

*Dr. Chandra M*

**Dr. Chandra M**

Chairperson

Department of Biosciences

Mangalore University

Mangalagangotri

**CHAIRPERSON**

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)



**MANGALORE UNIVERSITY**

**DEPARTMENT OF BIOSCIENCES MANGALAGANGOTTHRI-**

**574199**

**COMPARATIVE ANALYSIS AND PHYSIO-CHEMICAL  
PARAMETERS OF POND WATER SAMPLES FROM  
NARAHARIPARVATA, BANTWAL**

*A PROJECT DISSERTATION REPORT SUBMITTED TO MANGALORE UNIVERSITY*

*IN*

*PARTIAL FULFILMENT FOR THE DEGREE OF MASTER OF SCIENCE IN  
BIOSCIENCES*

**PAPER CODE: BSP 557**

**By**

**CHANDAN.P**

**Reg. No: 201611384108**

**Under the Guidance of**

**Dr. KARAMCHAND KISHORE S. M.Sc. Ph. D.**

**Lecturer, Department of Biosciences**

**Mangalore University, Mangalagangothri**

**2021-2022**





Dr. Sharath Chandra K.  
Lecturer  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Mangalore, India

Email: sharathkondandoor@gmail.com

## CERTIFICATE

This is to certify that, the dissertation titled "Isolation and characterisation of certain endophytic fungi isolated from the sterilized stem bark and pod samples of *Senna alata* (L.) Roxb." submitted by *Diona Leonil Dsouza* for the partial fulfillment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the results of the experiments carried out by her under my guidance and direct supervision during 2021-2022. I declare that the dissertation or a part there of has not been the basis for any degree or diploma.

October 07, 2022  
Mangalagangothri

Dr. Sharath Chandra K.  
Project Guide

Examiners:

- 1.
- 2.

Chairperson  
**CHAIRPERSON**  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)



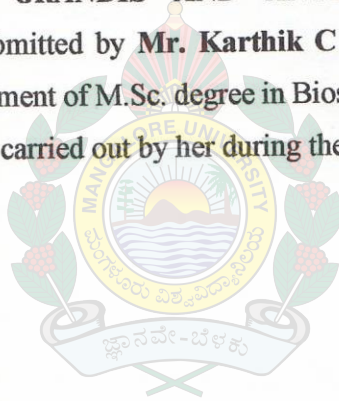
**MANGALORE UNIVERSITY**  
**DEPARTMENT OF BIOSCIENCES**  
**Mangalagangothri-574199**

**CERTIFICATE**

This is to certify that the project entitled "IDENTIFICATION OF FUNGAL PATHOGENS ISOLATED FROM *COCCINIA GRANDIS* AND ANTIFUNGAL ACTIVITY OF *BILARRHENA PUBESCENS*" submitted by Mr. Karthik C H under the guidance of Dr. Chandra M, towards the partial fulfilment of M.Sc. degree in Biosciences (IV semester) contains the result of the genuine project work carried out by her during the academic year 2021-2022.

Place: Mangalagangothri

Date: 12/10/2022



Guide

Prof. Chandra M

Chairperson,

Department of Biosciences

Chairperson

Department of Biosciences

**CHAIRPERSON**

**Department of Biosciences**

**Mangalore University**

**Mangalagangothri 574 199**

**Karnataka State (India)**






*Dr. Karamchand Kishore*  
Guest Faculty  
Department of Biosciences  
Mangalore University  
Mangalagangothri-574199  
Mangalore, India

### CERTIFICATE

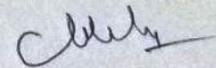
This is to certify that, the dissertation titled “**COMPARATIVE ANALYSIS OF PHYSIO-CHEMICAL PARAMETERS OF SELECTED POND WATER SAMPLES IN AND AROUND KASARAGOD DISTRICT, INDIA**” submitted by **Ms. Maithri.A.R** for the partial fulfilment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the result of the experiments carried out by her during 2021-2022. I declare that the dissertation or a part thereof has not been the basis for any degree or diploma.

October 12, 2022  
Mangalagangothri

  
Dr Karamchand Kishore  
Project Guide

Examiners:

- 1.
- 2.

  
Dr Chandra M  
Chairperson  
CHAIRPERSON  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)





**MANGALORE UNIVERSITY**  
Department of Biosciences  
Mangalagangothri-574199

### **CERTIFICATE**

This is to certify that the project entitled “**NUTRACEUTICAL PROPERTIES, HEMOLYTIC ACTIVITY AND ACUTE TOXICITY STUDY IN ZEBRAFISH OF UNCONVENTIONAL LEGUME, CANAVALLIA ROSEA OF COASTAL SAND DUNES OF INDIA**” submitted by **Mr. AKSHAY V** under the guidance of **Dr. LAVEENA K. B**, towards the partial fulfilment of M.Sc. degree in Biosciences (IV semester) contains the result of the genuine project work carried out by her during the academic year 2021-2022.

Place: Mangalagangothri

Date: 07.10.2022

*Laveena*  
Dr. Laveena K B,  
Lecturer &  
Project Guide  
Department of Biosciences

**Examiners: 1.**

2.

*Chandra M*  
Prof. Chandra M  
Chairperson,  
Department of Biosciences  
**CHAIRPERSON**  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)



**MANGALORE UNIVERSITY**

Department of Biosciences

Mangalagangothri-574199

**CERTIFICATE**

This is to certify that the project entitled "A POTENT PHARMACOLOGICAL MACROFUNGUS: GANODERMA Sps." submitted by Ms. Anusha S under the guidance of Dr. LAVEENA K. B, towards the partial fulfilment of M.Sc. degree in Biosciences (IV semester) contains the result of the genuine project work carried out by her during the academic year 2021-2022.

Place: Mangalagangothri

Date: 12/10/2022

Laveena.

Dr. Laveena K B,

Lecturer &

Project Guide

Department of Biosciences

Examiners: 1.

2.

Prof. Chandra M

Chairperson,

Department of Biosciences

**CHAIRPERSON**

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)





## MANGALORE UNIVERSITY

Department of Biosciences

Mangalagangothri-574199

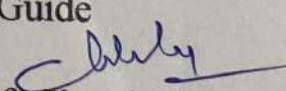
### CERTIFICATE

This is to certify that the project entitled “**PHARMACOGNOSTIC, PHYTOCHEMICAL AND ANTIOXIDANT PROPERTIES OF THE STROBILANTHUS KUNTHIANA**” submitted by **Ms. APEKSHA SUVARNA M** under the guidance of **Dr. Chandra M**, towards the partial fulfilment of M.sc. degree in Biosciences (IV semester) contains the result of the genuine project work carried out by her during the academic year 2021-2022.

Place: Mangalagangothri

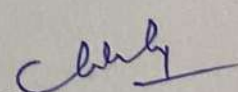
Date: 12.10.2022

Guide

  
Prof. Chandra M

Chairperson,

Department of Biosciences

  
Chairperson

Department of biosciences

**CHAIRPERSON**

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)





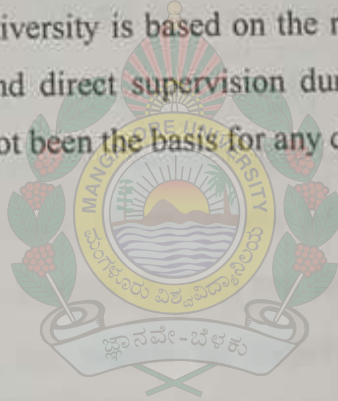
Dr. Sharath Chandra K.  
Lecturer  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199

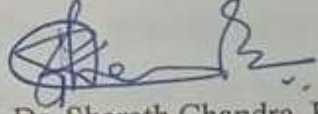
Email: sharathkondandoor@gmail.com

## CERTIFICATE

This is to certify that, the dissertation titled "Quality assessment of vermiwash generated from agrowastes as hydroponics growth medium through plant bioassay" submitted by *Ashwini* for the partial fulfillment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the results of the experiments carried out by her under my guidance and direct supervision during 2021-22. I declare that, the dissertation or a part there of has not been the basis for any degree or diploma.

October 11, 2022  
Mangalagangothri



  
Dr. Sharath Chandra K.  
Project Guide

Examiners:

- 1.
- 2.

  
Chairperson  
CHAIRPERSON  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)



## MANGALORE UNIVERSITY

Department of Biosciences  
Mangalagangothri-574199

### CERTIFICATE

This is to certify that the project entitled “**COMPARATIVE ANALYSIS OF WATER SAMPLES FROM FIVE DIFFERENT SOURCE: KASARAGOD DISTRICT, KERALA**” submitted by Ms. **Chaithrashree A P** under the guidance of **Dr. LAVEENA K. B**, towards the partial fulfilment of M.Sc. degree in Biosciences (IV semester) contains the result of the genuine project work carried out by her during the academic year 2021-2022.

Place: Mangalagangothri

Date: 10-10-2022

*Laveena*

Dr. Laveena K B,  
Lecturer &  
Project Guide  
Department of Biosciences

*Chandra M*

Prof. Chandra M  
Chairperson,  
Department of Biosciences

**CHAIRPERSON**

Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)

Examiners: 1.

2.





## MANGALORE UNIVERSITY

Department of Biosciences

Mangalagangothri-574199

### CERTIFICATE

This is to certify that the project entitled **“A WONDER GIFT TO MEDICAL SCIENCE: COFFEA ARABICA AND COFFEA ROBUSTA, ITS PHARMACOLOGICAL ACTIVITIES.”** submitted by **Ms. Chandana K S** under the guidance of **Dr. LAVEENA K. B.**, towards the partial fulfilment of M.Sc. degree in Biosciences (IV semester) contains the result of the genuine project work carried out by her during the academic year 2021-2022.

Place: Mangalagangothri

Date: 07.10.2022

*Laveena.*

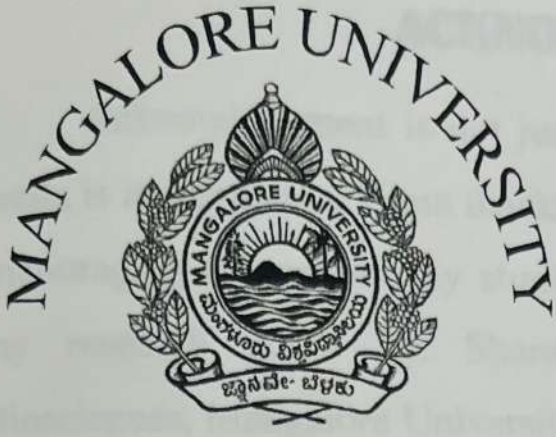
Dr. Laveena K B,  
Lecturer &  
Project Guide  
Department of Biosciences

*Chandra M*  
Prof. Chandra M  
Chairperson,  
Department of Biosciences  
**CHAIRPERSON**

Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)

**Examiners: 1.**

2.



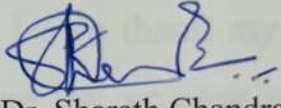
Dr. Sharath Chandra K.  
Lecturer  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Mangalore, India

Email: sharathkondandoor @gmail.com

## CERTIFICATE

This is to certify that, the dissertation titled “**Dynamics of endophytic fungi in *Senna alata* (L.) Roxb. from the coastal region of Dakshina Kannada**” submitted by *Deepika K. H.* for the partial fulfillment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the results of the experiments carried out by her under my guidance and direct supervision during 2021-2022. I declare that the dissertation or a part there of has not been the basis for any degree or diploma.

October 08, 2022  
Mangalagangothri

  
Dr. Sharath Chandra K.  
Project Guide

Examiners:

- 1.
- 2.

  
Chairperson  
**CHAIRPERSON**  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)





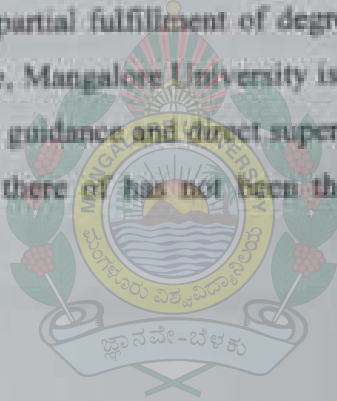
Dr. Sharath Chandra K  
Lecturer  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Mangalore, India

Email: sharathkondandoor@gmail.com

## CERTIFICATE

This is to certify that, the dissertation titled "Quality assessment of hermiwash  
ained from biowastes as hermiponics medium on the growth of *Vigna unguiculata*  
submitted by Devika C.H. for the partial fulfillment of degree of *Master of Science* in  
sciences under the Faculty of Science, Mangalore University is based on the results of the  
experiments carried out by her under my guidance and direct supervision during 2021-2022. I  
declare that, the dissertation or a part thereof has not been the basis for any degree or  
honors.

October 30, 2022  
Mangalagangothri



Dr. Sharathchandra K  
Project guide

Examiners:

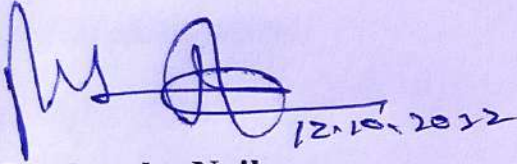
Chair person  
**CHAIRPERSON**  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)

## CERTIFICATE

This is to certify that the project entitled Study on the production of vermicompost using garden waste and it's effects on a plant growth submitted by **Ms. Dhanyashree B. K** under the guidance of **Dr. Prashantha Naik** towards the partial fulfilment of **M.Sc. degree in Biosciences** contains the result of the genuine project work carried out by her during the academic year 2021-2022. I declare that this dissertation or a part there of has not been the basis for any degree or diploma.

Place: Mangalagangothri

Date: 18-10-2022

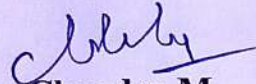
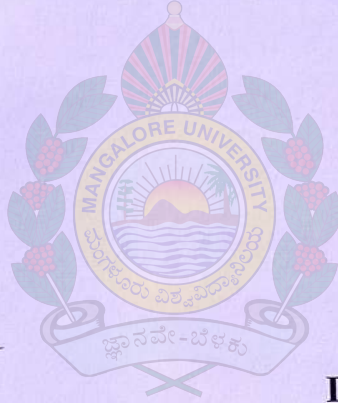


**Dr. Prashantha Naik**

Professor

Department of Biosciences

Mangalore University, Mangalagangothri



**Dr. Chandra M**

Chairperson

Department of Biosciences

**CHAIRPERSON**

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)



# CERTIFICATE

This is to certify that, the dissertation titled **A study on compost produced from black soldier fly *HERMITIA ILLUCENS* (L.)** submitted by Ms. Jayashree for the partial fulfillment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the results of the experiments carried out by her under my guidance and direct supervision during 2021-2022. I declare that the dissertation or a part thereof has not been the basis for any degree or diploma.

October 12, 2022  
Mangalagangothri



Dr. Prashantha Naik.

Project Guide

Examiners:

1.

2.

Dr. Chandra M

Chairperson  
**CHAIRPERSON**  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)



**Mangalore**

**University**

**DEPARTMENT OF BIOSCIENCES**

**MANGALAGANGOTRI – 574199**

**CERTIFICATE**

This is to certify that the project entitled **GREEN SYNTHESIS, CHARACTERIZATION AND EVALUATION OF MANGANESE OXIDE NANOPARTICLES AS ANTICANCER AGENTS FOR LUNG CANCER** submitted by **Ms. Mahida Vaseem** under the guidance of **Dr. Ashwini Prabhu** towards the partial fulfilment of **M.Sc. degree in Biosciences** contains the result of the genuine project work carried out by her during the academic year 2021-2022. I declare that this dissertation or a part there of has not been the basis for any degree or diploma.

Place: Mangalagangotri

Date:

*Ashwini Prabhu*

**Dr. Ashwini Prabhu**

Assistant Professor

Yenepoya Research Centre

Yenepoya(Deemed to be university)

*Chandra M*

**Dr. Chandra M**

Chairperson

Department of Biosciences

Mangalore University

Mangalagangotri

**CHAIRPERSON**

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)






*Dr. Karamchand Kishore S.*  
*Guest Faculty*  
*Department of Biosciences*  
*Mangalore University*  
*Mangalagangothri-574199*  
*Mangalore, India*

### CERTIFICATE

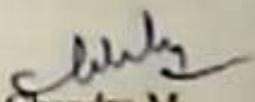
This is to certify that, the dissertation titled "**PURITY EVALUATION OF MARKET SAMPLES OF TURMERIC POWDER**" submitted by **Ms. Nishad Saida Banu** for the partial fulfilment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the result of the experiments carried out by her during 2021-2022. I declare that the dissertation or a part thereof has not been the basis for any degree or diploma.

October 12, 2022  
Mangalagangothri

  
Dr. Karamchand Kishore S.  
Project Guide

Examiners:

1.

  
Dr Chandra M

Chairperson  
**CHAIRPERSON**

Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)

2.



**MANGALORE UNIVERSITY**

Department of Biosciences

Mangalagangothri-574199

**CERTIFICATE**

This is to certify that the project entitled “**COMPARATIVE ANALYSIS OF BORE WATER SAMPLES FROM FOUR DIFFERENT SOURCE: DAKSHINA KANNADA DISTRICT, KARNATAKA**” submitted by Ms. **Nishmitha K.S** under the guidance of **Dr. LAVEENA K. B**, towards the partial fulfilment of M.Sc. degree in Biosciences (IV semester) contains the result of the genuine project work carried out by her during the academic year 2021-2022.

Place: Mangalagangothri

Date: 10.10.2022

*Laveena*

Dr. Laveena K B,  
Lecturer &  
Project Guide  
Department of Biosciences

Examiners: 1.

2.

*Chandra M*

Prof. Chandra M  
Chairperson,  
Department of Biosciences  
**CHAIRPERSON**

Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)





*Dr. Karamchand Kishore S.*  
*Guest Faculty*  
*Department of Biosciences*  
*Mangalore University*  
*Mangalagangothri-574199*  
*Mangalore, India*

### CERTIFICATE

This is to certify that, the dissertation titled **“MEDICINAL PLANTS IN AND AROUND, MANGALAGANGOTRI, KONAJE AND PILIKULA NISARGHADHAMA, MANGALORE, DAKSHINA KANNADA”** submitted by **PRASHANTH ROCKY FERNANDES** for the partial fulfilment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the result of the experiments carried out by her during 2021-2022. I declare that the dissertation or a part thereof has not been the basis for any degree or diploma.

October 12, 2022  
Mangalagangothri

Dr. Karamchand Kishore S.  
Project Guide

Examiners:

1.

2.

Dr Chandra M.

**CHAIRPERSON**

**Department of Biosciences**  
**Mangalore University**  
**Mangalagangothri 574 199**  
**Karnataka State (India)**



Dr. K.R. Sridhar  
Adjunct Professor  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Mangalore, India

Phone: +91 824 2287 261  
Email: kandikere@gmail.com

## CERTIFICATE

This is to certify that the dissertation titled "STUDIES ON THE AQUATIC HYPHOMYCETES AND LEAF LITTER DECOMPOSITION IN A CAVE STREAM OF SOUTHWEST INDIA" submitted by RAMYA, N. for the partial fulfillment of degree of Master of Science in Biosciences under the Faculty of Science, Mangalore University is based on the results of the experiments carried out by her under my guidance and direct supervision during 2021-22. I declare that the dissertation or a part thereof has not been the basis for any degree or diploma.

September 09, 2022  
Mangalagangothri

A handwritten signature in black ink, appearing to be "K.R. Sridhar".

K.R. Sridhar

Research Supervisor

Dr. K. R. Sridhar M.Sc., Ph.D  
Professor  
JGC-BSR Faculty Fellow  
Department of Biosciences  
Mangalore University  
MANGALAGANGOTHRI-574 199,  
Mangalore, Karnataka, India.

A handwritten signature in black ink, appearing to be "Chairperson".

Chairperson  
CHAIRPERSON  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)

Examiners

1.

2.



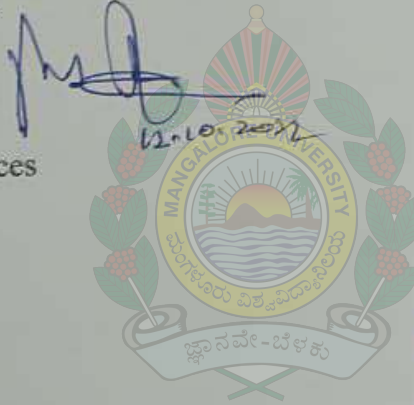
## CERTIFICATE

This is to certify that the project entitled effect of soil salinization and plant growth-*Vigna radiata* L. submitted by Ms. Reshmitha.D. S under the guidance of Dr. Prashantha Naik towards the partial fulfilment of M.Sc. degree in Biosciences contains the result of the genuine project work carried out by her during the academic year 2021-2022. I declare that this dissertation or a part there of has not been the basis for any degree or diploma.

Place: Mangalagangothri

Date: 12/10/2022

Dr. Prashanth Naik  
Professor  
Department of Biosciences  
Mangalore University  
Mangalagangothri



  
Prof. Chandra M.  
Chairperson  
Department of Biosciences  
Mangalore University  
Mangalagangothri  
**CHAIRPERSON**  
Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)



## MANGALORE UNIVERSITY

Department of Biosciences

Mangalagangothri-574199

### CERTIFICATE

This is to certify that the project entitled "QUALITY ANALYSIS AND ISOLATION OF MICROORGANISMS AFTER PRODUCTION OF WINE FROM DIFFERENT FRUIT SAMPLES." Submitted by Mr. Sharath under the guidance of Dr. CHANDRA M, towards the partial fulfilment of M.Sc. degree in Biosciences (IV semester) contains the results the genuine project work carried out by him during the academic year 2021-2022.

Place: Mangalagangothri

Date: 12/10/2022

Guide

Prof. Chandra M

Chairperson,

Department of Biosciences

Chairperson

Department of biosciences

**CHAIRPERSON**

Department of Biosciences  
Mangalore University  
Mangalagangothri 574 199  
Karnataka State (India)





Mangalore

University

DEPARTMENT OF BIOSCIENCES

MANGALAGANGOTRI – 574199

**CERTIFICATE**

This is to certify that the project entitled **EFFECT OF BACTERIAL BLP-LIKE MOLECULE ON BIOCHEMICAL AND IMMUNOLOGICAL MEASURES IN WISTAR RATS** submitted by **Ms. Shilpashree N** under the guidance of **Dr. Monika Sadananda** towards the partial fulfilment of **M.Sc. degree in Biosciences** contains the result of the genuine project work carried out by her during the academic year 2021-2022. I declare that this dissertation or a part thereof has not been the basis for any degree or diploma.

Place: Mangalagangothri

Date: 10/10/22

*Monika Sadananda*

**Dr. Monika Sadananda**

Professor

Department of Biosciences

Mangalore University, Mangalagangothri

*Dr. Monika Sadananda*

Professor -

Department of Biosciences  
MANGALORE UNIVERSITY

*Chandra M*

**Dr. Chandra M**

Chairperson

Department of Biosciences

**CHAIRPERSON**

Department of Biosciences

Mangalore University

Mangalagangothri 574 199

Karnataka State (India)



**MANGALORE UNIVERSITY**  
Department of Biosciences  
Mangalagangothri-574199

**CERTIFICATE**

This is to certify that the project entitled “**COMPARATIVE ANALYSIS OF POND WATER SAMPLES FROM THREE DIFFERENT SOURCE: DAKSHINA KANNADA DISTRICT, KARNATAKA**” submitted by Ms. **Sushmitha** under the guidance of **Dr. LAVEENA K. B.**, towards the partial fulfilment of M.Sc. degree in Biosciences (IV semester) contains the result of the genuine project work carried out by her during the academic year 2021-2022.

Place: Mangalagangothri

Date: 11-10-2022

*Laveena.*

Dr. Laveena K B,  
Lecturer &  
Project Guide  
Department of Biosciences

*Chandra M*

Prof. Chandra M  
Chairperson,  
Department of Biosciences

**Examiners: 1.**

**2.**





MANGALORE UNIVERSITY  
Department of Biosciences  
Mangalagangothri-574199

### CERTIFICATE

This is to certify that the project entitled "BIOCHEMICAL CHARACTERIZATION OF PROBIOTIC BACTERIA FROM ENERGY DRINK" submitted by Ms. VEDA NAIR under the guidance of Dr. CHANDRA M, towards the partial fulfilment of M.sc. degree in Biosciences (IV semester) contain the result of the genuine project work carried out by her during the academic year 2021-2022.

Place: Mangalagangothri

Date: 12.10.2022

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Prof. Chandra M

Chairperson,

Department of Biosciences

Chairperson

Department of biosciences

**CHAIRPERSON**

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Mangalore University

Mangalagangothri 574 199

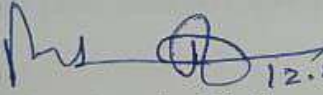
Karnataka State (India)

## CERTIFICATE

This is to certify that the project entitled *A study on Soil Salinization and Some Fertility Factors* by Ms. Yakshitha K. under the guidance of Dr. Prashantha Naik towards the partial fulfilment of M.Sc. degree in Biosciences contains the result of the genuine project work carried out by her during the academic year 2021-2022. I declare that this dissertation or a part thereof has not been the basis for any degree or diploma.

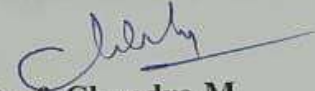
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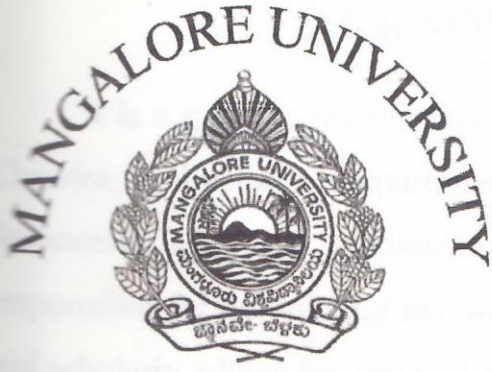
**Dr. Prashantha Naik**  
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## CERTIFICATE


This is to certify that, the dissertation titled “**Production and quality assessment of four organic composts through plant bioassay**” submitted by **Nithin Raj** for the partial fulfillment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the results of the experiments carried out by him under my guidance and direct supervision during 2021-2022. I declare that the dissertation or a part thereof has not been the basis for any degree or diploma.

October 08, 2022  
Mangalagangothri

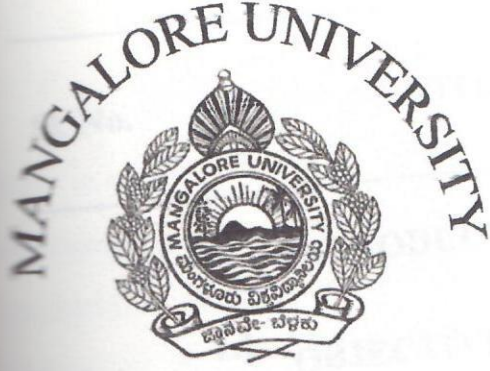


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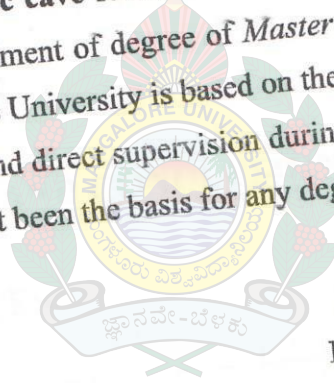


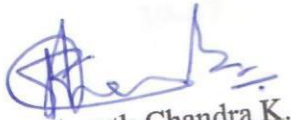
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## CERTIFICATE

This is to certify that, the dissertation titled "Distribution pattern of freshwater algae and cyanobacteria in the lateritic cave streams of Dakshina Kannada" submitted by **Thirisha Rai G.** for the partial fulfillment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the results of the experiments carried out by her under my guidance and direct supervision during 2021-2022. I declare that the dissertation or a part there of has not been the basis for any degree or diploma.



  
Dr. Sharath Chandra K.  
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October 08, 2022  
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## CERTIFICATE

This is to certify that the dissertation titled "*STUDIES ON THE FRESHWATER HYPHOMYCETES IN TWO COASTAL STREAMS OF SOUTHWEST INDIA*" submitted by *TEJASWI* for the partial fulfillment of degree of *Master of Science in Biosciences* under the Faculty of Science, Mangalore University is based on the results of the experiments carried out by her under my guidance and direct supervision during 2021-22. I declare that the dissertation or a part thereof has not been the basis for any degree or diploma.

September 09, 2022  
Mangalagangothri



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Examiners

1.

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**Mangalore University**

**DEPARTMENT OF BIOSCIENCES**

**MANGALAGANGOTRI - 574199**

**CERTIFICATE**

This is to certify that the project entitled **BACTERIAL BRAUN LIPOPROTEIN-LIKE MOLECULE-INDUCED ULTRASONIC VOCALISATIONS IN WISTAR RATS** submitted by **Ms. Amritha V. Samant** under the guidance of **Dr. Monika Sadananda** towards the partial fulfilment of **M.Sc. degree in Biosciences** contains the result of the genuine project work carried out by her during the academic year 2021-2022. I declare that this dissertation or a part thereof has not been the basis for any degree or diploma.

Place: Mangalagangotri

Date: 10/10/22

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**Dr. Monika Sadananda**

Professor  
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