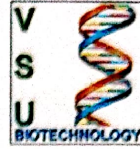




VIKRAMA SIMHAPURI UNIVERSITY
Nellore - 524 324, Andhra Pradesh, India
College of Science & Technology
DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that this project report entitled “Exploring the Morphological, Biochemical and PGPR activities of *Bacillus megaterium*” submitted by Ms. B. Meghana (Regd. No: 220410001002) in partial fulfillment for the degree of **Master of Science in Microbiology**, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance. This project has not formed the basis for the award of any other degree, diploma, associateship or fellowship.

C. Kiranmai
SUPERVISOR

Dr. CHADIPALLA KIRANMAI
Assistant Professor
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NELLORE-524 001. A.P. INDIA

EXTERNAL EXAMINER

Valued by
M. J. S.

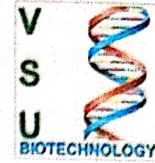


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Nellore - 524 324, Andhra Pradesh, India

College of Science & Technology

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that this project report entitled "Isolation Screening and Characterization of PGPR bacteria From Brackish Water" submitted by Ms. CHARITHA CHIPPALAPALLI (Regd. No: 220410001003) in partial fulfillment for the degree of Master of Science in Microbiology, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a Bonafide work done under our guidance and supervision. This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.

INTERNAL GUIDE

Dr. UDAY SANKAR ALLAM

M.Sc., (IARI), Ph.D., (IISc), PDF (UMich-USA)

Assistant Professor

Department of Biotechnology,

Vikrama Simhapuri University,

Nellore 524 320. A.P. INDIA

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NELLORE - 524 001. A.P. INDIA.

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Nellore -524324, Andhra Pradesh ,India

College of Science & Technology

DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE



This is to certify that the project work entitled “ISOLATION AND IDENTIFICATION OF PATHOGENS PRESENT IN SPOILED VEGETABLES AND FRUITS” submitted by Mr. GONA BARNABA, Regd. No. 220410001005 for the degree of Master of Sciences in Microbiology, VIKRAMA SIMHAPURI UNIVERSITY, Nellore, Andhra Pradesh is a record of bonafied work carried out by him under the guidance. This project has not formed the basis for the award of any other degree, diploma associate ship or fellowship.

Dr. K.V.L. Shrikavaram
Dr. K.V.L. Shrikavaram, M.Sc., Ph.D.
Assistant Professor
SUPERVISOR
Department of Biotechnology
VIKRAMA SIMHAPURI UNIVERSITY
Kakatur, SPSR Nellore - 524320. A.P. INDIA

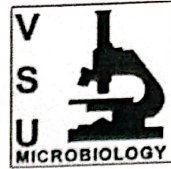
Dr. Uday Sankar Allam
Dr. UDAY SANKAR ALLAM
M.Sc., (IARI), Ph.D., (IISc), PDF (UMich-USA)
Assistant Professor
Department of Biotechnology
Vikrama Simhapuri University
Nellore-524 320. A.P. INDIA

EXTERNAL EXAMINER

Valued Mr. [Signature]



VIKRAMA SIMHAPURI UNIVERSITY
Nellore -524 324, Andhra Pradesh, India
College of Science & Technology
DEPARTMENT OF MICROBIOLOGY



CERTIFICATE

This is to certify that this project report entitled "*Identification of drug targets in Proteus mirabilis HI4320 using systems biology strategies: subtractive proteomics and molecular docking analysis*" submitted by G. Alexa (Regd.No:220410001006) in partial fulfillment for the degree of **Master of Science in Microbiology**, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance and supervision. This project has not formed the basis for the award of any Degree, Diploma, Associate ship or Fellowship.

G. Alexa
31/8/24
RESEARCH SUPERVISOR
Dr. S.B. SAINATH
RESEARCH SUPERVISOR

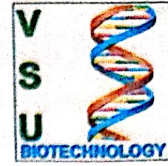
G. Alexa
HEAD OF THE DEPARTMENT
HEAD
Department of Biotechnology
College of Science & Technology
VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524 001. A.P. INDIA.

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M. B. S.



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Nellore - 524 324, Andhra Pradesh, India
College of Science & Technology
DEPARTMENT OF BIOTECHNOLOGY



C E R T I F I C A T E

This is to certify that this project report entitled “**Mass production of biopesticide formulation by using *Trichoderma harzianum* extract**” submitted by **Ms. K. Rohini** (Regd. No: 220410001007) in partial fulfillment for the degree of **Master of Science in Microbiology**, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance. This project has not formed the basis for the award of any other degree, diploma, associateship or fellowship.

K. Vidya Prabhakar

SUPERVISOR

Dr. K. Vidya Prabhakar, M.Tech., Ph.D. (IIT-KGP)
Assistant Professor
Department of Biotechnology
Vikrama Simhapuri University
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NELLORE - 524 001, A.P. INDIA

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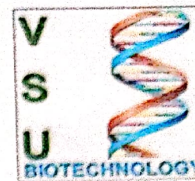


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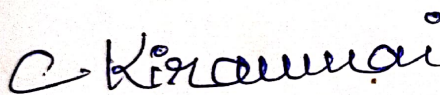
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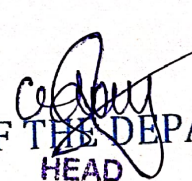
DEPARTMENT OF BIOTECHNOLOGY



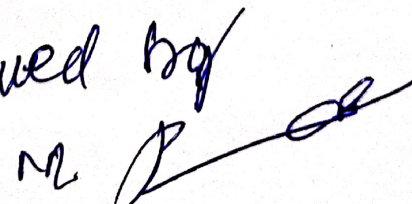
CERTIFICATE

This is to certify that this project report entitled "Exploring the Antagonistic Potential Saline Tolerance and Heat Resistance of *Trichoderma viride*" submitted by Mr. A. Kartheek (Regd. No: 220410001009) in partial fulfillment for the degree of Master of Science in Microbiology, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance. This project has not formed the basis for the award of any other degree, diploma, associateship or fellowship.


SUPERVISOR
Dr. CHADIPIRALLA KIRANMAI
Assistant Professor
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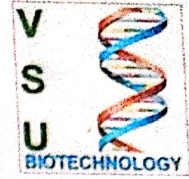

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NELLORE - 524 001. A.P. INDIA.

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Valued by
Mr. 



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Nellore - 524 324, Andhra Pradesh, India
College of Science & Technology
DEPARTMENT OF BIOTECHNOLOGY



C E R T I F I C A T E

This is to certify that this project report entitled "INVESTIGATION OF MESOPOROUS SILICA NANOPARTICLES FOR BACTERIAL NANO-CARRIER IN ANTIBACTERIAL APPLICATIONS" submitted by Ms. MOIDA KATYAYANI (Regd. No: 220410001010) in partial fulfillment for the degree of Master of Science in Microbiology, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under our guidance and supervision. This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.

GUIDE
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Assistant Professor
Department of Biotechnology
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NELLORE - 524 001. A.P. INDIA.

EXTERNAL EXAMINER

M. R. S.



VIKRAMA SIMHAPURI UNIVERSITY
DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the dissertation entitled " **Extraction & Characterization of ZnONPs from Piper Betel Roots & Antibacterial activity against pathogenic bacteria**" submitted by **P. SARANYA (220410001011)** in partial fulfillment for the degree of **Master of Science in Microbiology**, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under our guidance of **Dr.G.Mary sandeepa** . This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.

Dr. G. Mary Sandeepa
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C. Reddy
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EXTERNAL EXAMINER

Valued by
M. B. S.



**VIKRAMA SIMHAPURI UNIVERSITY
NELLORE (A.P) - 524 324, INDIA
DEPARTMENT OF BIOTECHNOLOGY**

CERTIFICATE

This is to certify that the dissertation entitled "**ANTIMICROBIAL ACTIVITY OF A COMPOUND N-(2(4-(3-nitrophenyl) thiazol-2-yl) hydrazine carbonothioyl) benzamide**" submitted by **SK.KAJOL**, for the award of M.Sc. Degree in Biotechnology is a bonafide record of research work carried out by him/her under my research supervision by the candidate during the period of his study and that the dissertation has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or other similar title to the candidate or to any other person(s). I further certify that this dissertation represents the independent work of the candidate.

Sainath
3/8/24

**INTERNAL GUIDE
Dr. S.B. SAINATH
RESEARCH SUPERVISOR**

[Signature]
HEAD OF DEPARTMENT

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Department of Biotechnology
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VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524 001. A.P. INDIA.

EXTERNAL GUIDE

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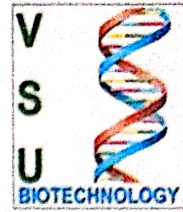


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CERTIFICATE

This is to certify that the project report entitled "OPTIMIZATION OF INOCULUM SIZE FOR THE PRODUCTION OF POLYHYDROXYALKANOATES (PHA) USING SLAUGHTERHOUSE WASTEWATER" in submitted by S.S.V.N.D.M MANOGNA (220410001014) partial fulfillment for the degree of Master of Science in Microbiology, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance and supervision. This project hasnot formed the basis for the award of any others Degree, Diploma, Associateship or Fellowship.

INTERNAL GUIDE

Dr. K. Vidya Prabhakar, M.Tech., Ph.D. (IIT-KGP)
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Department of Biotechnology,
College of Science & Technology,
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NELLORE - 524 001, A.P., INDIA

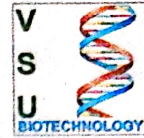
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DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that this project report entitled “Screening of Bacterial Strains Isolated from Rhizosphere Soil Against Fungal Pathogen *Alternaria alternata*” submitted by **Kokkerala Durga Naga Srinivas (Regd. No: 220410001015)** in partial fulfillment for the degree of **Master of Science in Microbiology (2023-24)**, is a bonafide work done under my guidance and supervision in the Department of Biotechnology, Vikrama Simhapuri University, Nellore. This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.

HEAD

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Department of Biotechnology
College of Science & Technology
VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524 001. A.P. INDIA.

INTERNAL GUIDE

Dr. G. Vijaya Ananda Kumar Babu
Professor
Department of Biotechnology
College of Science & Technology
Vikrama Simhapuri University
Kakatur - 524 320, Nellore, Andhra Pradesh

EXTERNAL EXAMINER

valued by
M. J.

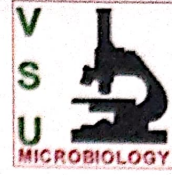


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Nellore - 524 324, Andhra Pradesh, India

College of Science & Technology

DEPARTMENT OF MICROBIOLOGY



CERTIFICATE

This is to certify that this project report entitled "*Exploring the Antimicrobial properties of Azolla pinnata extracts against plant and poultry pathogens*" submitted Mr. Kommu Sadanjaneya (Regd. No: 220410001016) in partial fulfilment for the degree of **Master of Science in Microbiology**, Department of Microbiology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance. This project has not formed the basis for the award of any other degree, diploma, associateship or fellowship.

C. Kiranmai

SUPERVISOR

Dr. CHADIPIRALLA KIRANMAI

Assistant Professor

Department of Biotechnology

College of Science & Technology

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NELLORE-524 001, A.P. INDIA

C. Kiranmai
HEAD

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College of Science & Technology

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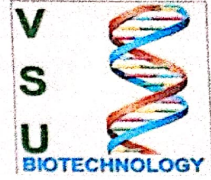
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M. J. S.



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College of Science & Technology
DEPARTMENT OF MICROBIOLOGY



CERTIFICATE

This is to certify that this project report entitled **ISOLATION SCREENING AND CHARACTERIZATION OF PGPR BACTERIA FROM SALINE WATER** submitted by **Mr. Thati Kiran Kumar Yadav** (Regd No: 220410001017) in partial fulfillment for the degree of **Master of Science in Microbiology**, Department of Microbiology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a Bonafide work done under our guidance and supervision. This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.


INTERNAL GUIDE

Dr. UDAY SANKAR ALLAM

M.Sc., (IARI), Ph.D., (IISc), PDF (UMich-USA)

Assistant Professor

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EXTERNAL EXAMINER


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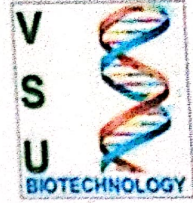


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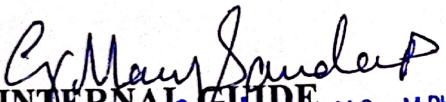
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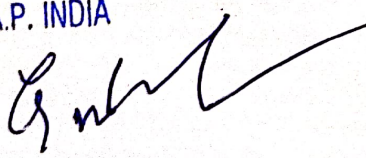
DEPARTMENT OF BIOTECHNOLOGY

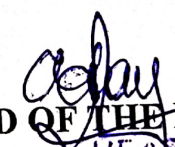


CERTIFICATE

This is to certify that this project report entitled "**PREPARATION, CHARACTERIZATION OF AQUEOUS PIPER BETEL ROOT EXTRACT AND ANTIMICROBIAL ACTIVITY AGAINST ORAL PATHOGENS**" submitted by VAYALA ANITHA (Regd. No: 220410001018) in partial fulfillment for the degree of **Master of Science in Microbiology (2023-2024)**, is a bonafide work done under the guidance of Dr.G.Mary Sandeepa. This project has not formed the basis for the award of any Degree, Diploma, Associateship, or Fellowship.


INTERNAL GUIDE
Dr. G. Mary Sandeepa, M.Sc., M.Phil., Ph.D
Assistant Professor
Department of Biotechnology
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Kakutur, SPSR Nellore - 524320. A.P. INDIA
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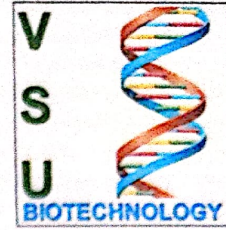

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NELLORE - 524 001. A.P. INDIA.



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Nellore - 524 324, Andhra Pradesh, India
College of Science & Technology

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that this project report entitled “*Synthesis of Nanoparticals from Jackfruit seeds and its Anti microbial Activity*” submitted by Mr. Vemula Sai (Regd. No: 220410001019) in partial fulfillment for the degree of **Master of Science in Microbiology**, Department of Microbiology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance. This project has not formed the basis for the award of any other degree, diploma, associate ship or fellowship.

SUPERVISOR

HEAD

HEAD

Department of Biotechnology
College of Science & Technology
VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524 001. A.P. INDIA.

EXTERNAL EXAMINER



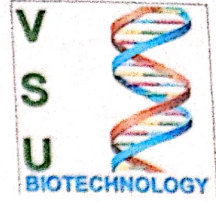


VIKRAMA SIMHAPURI UNIVERSITY

Nellore- 524 324, Andhra Pradesh, India

College of Science & Technology

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the dissertation entitled "**ISOLATION OF PROBIOTICS FROM COMMERCIAL CURD SAMPLE**" submitted by **KUTHALA SOMATEJA**, for the award of M.Sc. Degree in Microbiology is a bonafied record of research work carried out by him/her under my research supervision by the candidate during the period of his study and that the dissertation has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or other similar title to the candidate or to any other person(s). I further certify that this dissertation represents the independent work of the candidate.

Sainath
3/8/24
Internal Guide

Dr. S.B. SAINATH
RESEARCH SUPERVISOR

[Signature]
Head of the Department

HEAD
Department of Biotechnology
College of Science & Techno
VIKRAMA SIMHAPURI UNIV
NELLORE - 524 001 A P

[Signature]
External guide



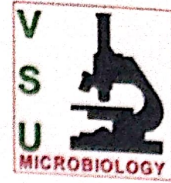
VIKRAMA SIMHAPURI UNIVERSITY



Nellore - 524 324, Andhra Pradesh, India

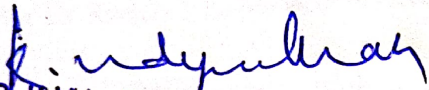
College of Science & Technology

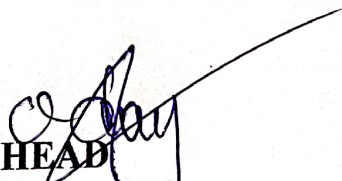
DEPARTMENT OF MICROBIOLOGY



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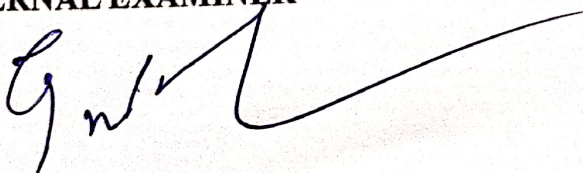
This is to certify that this project report entitled "*Microbial Analysis of water and Finished Product in Pharmaceutical Industry*" submitted N.Pallavi (Regd. No: 220410001021) in partial fulfilment for the degree of **Master of Science in Microbiology**, Department of Microbiology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance. This project has not formed the basis for the award of any other degree, diploma, associate ship or fellowship.


Dr. K. Vidya Prabhakar, M.Tech., Ph.D. (IIT-KGP)
SUPERVISOR
Assistant Professor
Department of Biotechnology
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HEAD

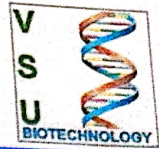
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Department of Biotechnology
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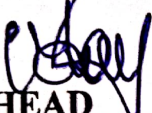


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DEPARTMENT OF BIOTECHNOLOGY



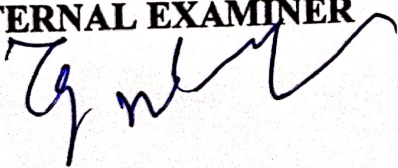
CERTIFICATE

This is to certify that this project report entitled “**Isolation and Biochemical Properties of Actinomycetes from soil Rhizosphere**” submitted by **Ravinuthala Ahalya (Regd.220410001023)** in partial fulfillment for the degree of **Master of Science in Microbiology (2023-24)**, is a bonafide work done under my guidance and supervision in the Department of Biotechnology, Vikrama Simhapuri University, Nellore. This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.


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College of Science & Technology
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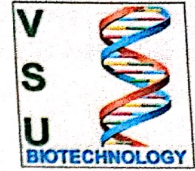

INTERNAL GUIDE

Dr. G. Vijaya Ananda Kumar Babu
Professor
Department of Biotechnology
College of Science & Technology
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Kakatur - 524 320, Nellore, Andhra Pradesh





VIKRAMA SIMHAPURI UNIVERSITY
Nellore - 524 001, Andhra Pradesh, India College
of Science & Technology
Department of Biotechnology



C E R T I F I C A T E

This is to certify that this project report entitled “Exploring the Morphological Biochemical and PGPR traits of *Bacillus subtilis* and *Bacillus pumilus*” submitted by Ms. THATIKONDA ANIL (Regd. No: 220410001024) in partial fulfillment for the degree of Master of Science in Microbiology, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance. This project has not formed the basis for the award of any other degree, diploma, associateship or fellowship.

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G. n. s.
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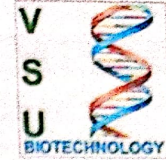
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COLLEGE OF SCIENCE AND TECHNOLOGY

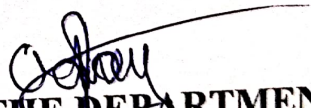


DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that this project dissertation entitled “Isolation, Screening and Characterization of PGPR bacteria from Mangrove Swamps” submitted by Chinni Pradeep (Regd. No: 220410001025) in partial fulfilment for the degree of M.Sc. Microbiology in 2022-24, Department of Microbiology, University College, Vikrama Simhapuri University, Nellore is a Bonafede work done under the guidance of Asst. Prof. Dr. Uday sankar Allam, Department of Biotechnology, University College, Vikrama Simhapuri University, Nellore. This project dissertation has not formed the basis for the award of any other degree, diploma, associateship or fellowship.


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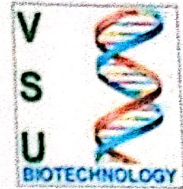

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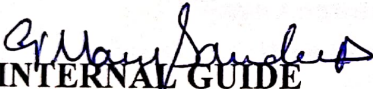


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CERTIFICATE

This is to certify that the project report entitled "*EVALUATION OF PHYTOCHEMICAL PROPERTIES AND ANTIMICROBIAL ACTIVITY OF PIPER BETEL ROOT EXTRACT*" in submitted by *Syed Mizba sulthana (220410001026)* partial fulfillment for the degree of **Master of Science in Microbiology**, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance and supervision. This project has not formed the basis for the award of any others Degree, Diploma, Associateship or Fellowship.


INTERNAL GUIDE

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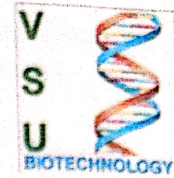

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DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the dissertation entitled "*BACTERIA & BEAUTY – Beneficial activity of bacteria for Skincare*" Submitted by **P.LASYA**, for the award of M.Sc. Degree in Microbiology is a bonafied record of research work carried out by him/her under my research supervision by the candidate during the period of his study and that the dissertation has not previously formed the basis for the award of any degree, diploma, associate ship, fellowship or other similar title to the candidate or to any other person. I further certify that this dissertation represents the independent work of the candidate.

INTERNAL GUIDE
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College of Science & Technology

DEPARTMENT OF MICROBIOLOGY



CERTIFICATE

This is to certify that this project report entitled "*Evaluation of in-house fungal isolates for antagonistic activity against plant pathogens Collectotrichum capsici and Aspergillus niger*" submitted by **Shaik.Akram** (Regd. No: 220410001029) in partial fulfilment for the degree of **Master of Science in Microbiology**, Department of Microbiology, **Vikrama Simhapuri University**, Nellore is a bonafide work done under my guidance. This project has not formed the basis for the award of any other degree, diploma, associate ship or fellowship.

SUPERVISOR

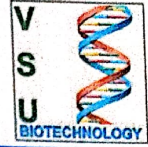
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CERTIFICATE

This is to certify that this project report entitled “Isolation and biochemical characterization of *Bacillus* species from soil samples” submitted by Thuraka Swathi (Regd. No: 220410001030) in partial fulfillment for the degree of Master of Science in Microbiology (2023-24), is a bonafide work done under my guidance and supervision in the Department of Biotechnology, Vikrama Simhapuri University, Nellore. This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.

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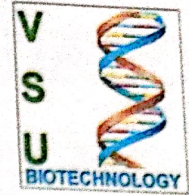
INTERNAL GUIDE

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**DEPARTMENT OF
BIOTECHNOLOGY**



C E R T I F I C A T E

This is to certify that this project report entitled “*Mass production of Trichoderma viride using agricultural by products*” submitted by Ms. M. Sivakrishna (Regd. No: 220410001031) in partial fulfillment for the degree of **Master of Science in Microbiology**, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under my guidance. This project has not formed the basis for the award of any other degree, diploma, associateship or fellowship.

C Kiranmai
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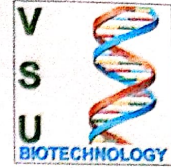
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CERTIFICATE

This is to certify that this project report entitled “ISOLATION, SCREENING AND CHARACTERIZATION OF PGPR BACTERIA FROM BRACKISH WET LAND ECOSYSTEM” submitted by Ms. N. VENKATA MAMATHA (Regd. No: 220410001032) in partial fulfillment for the degree of **Master of Science in Biotechnology**, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under our guidance and supervision. This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.

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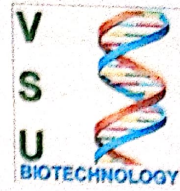


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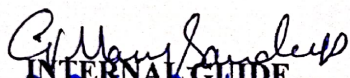
College of Science & Technology

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CERTIFICATE

This is to certify that the dissertation entitled "**Betel Root Extract Mediated Green Synthesis Of ZnO NPs: Development, Validation And Antimicrobial Activity Against Oral Pathogens**" submitted by **B.PRABHUDEVA (220410001033)** in partial fulfillment for the degree of **Master of Science in Microbiology**, Department of Biotechnology, College of Science & Technology, Vikrama Simhapuri University, Nellore is a bonafide work done under our guidance of **Dr.G.Mary sandeepa** . This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.


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CERTIFICATE

This is to certify that the dissertation entitled " **ANTIMICROBIAL ACTIVITIES OF N-(2-(4-(3-METHOXYPHENYL) THIAZOL-2-YL) HYDRAZINECARBONOTHIOYL) BENZAMIDE** " submitted by **K. ANUPALLAVI**, for the award of M.Sc. Degree in Microbiology is a bonafide record of research work carried out by her under my research supervision by the candidate during the period of her study and that the dissertation has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or other similar title to the candidate or to any other person(s). I further certify that this dissertation represents the independent work of the candidate .

KV Shrikanya Rao
8/8/24

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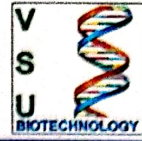
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M. B. a







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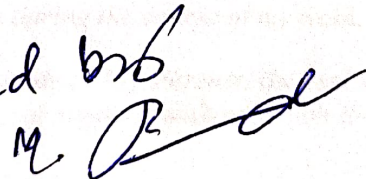
This is to certify that this project report entitled “Isolation and Biochemical Characterization of *Streptomyces* Bacteria from Soil Samples” submitted by **A. Jyothi Bai** (Regd. No: 220410001001) in partial fulfillment for the degree of **Master of Science in Microbiology (2023-24)**, is a bonafide work done under my guidance and supervision in the Department of Biotechnology, Vikrama Simhapuri University, Nellore. This project has not formed the basis for the award of any Degree, Diploma, Associateship or Fellowship.


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CERTIFICATE

This is to certify that the dissertation entitled " **ANTIMICROBIAL ACTIVITY OF COMPOUND N-(2-(4-(2-methoxyphenyl) thiazol-2-yl) hydrazine carbonothioyl) benzamide** " submitted by **K.LAVANYA**, for the award of M.Sc. Degree in Biotechnology is a bonafied record of research work carried out by him/her under my research supervision by the candidate during the period of his study and that the dissertation has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or ot her similar title to the candidate or to any other person(s). I further certify that this dissertation represents the independent work of the candidate.

Santh
3/8/24

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RESEARCH SUPERVISOR

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Santh

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