

SREE SANKARA COLLEGE, KALADY DEPARTMENT OF MICROBIOLOGY Post Box- 1 Kalady-683574 Ph.No.0484-2462341

### **BONAFIDE CERTIFICATE**

This is to certify that the dissertation entitled "Evaluation Of The Efficacy Of Microbial Consortium SSC For Organic Waste Composting Using Low-Cost Media" submitted to Mahatma Gandhi University in the partial fulfilment of the requirements for the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY, is a record of original work done by BHAGYALAKSHMI P R and PARVATHY RAJ under the guidance of Dr. JITHASHA BALAN, Head of the Department of Microbiology, Sree Sankara College, Kalady, during the academic year 2020-23.

Dr. JITHASHA BALAN Head of Microbiology Department

Examiners: 1. 26 4 23 2. Abre



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# **BONAFIDE CERTIFICATE**

This is to certify that the dissertation entitled "ISOLATION SCREENING AND MOLECULAR CHARACTERISATION OF PLANT GROWTH PROMOTING BACTERIA FROM MANGROVE ECOSYSTEM "submitted to Mahatma Gandhi University in the partial fulfillment of the requirements for the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY is a bonafide work carried out by ASWATHY.R, ANJALI KRISHNAN U, BESSY ELDHOSE under my guidance of Dr. VP AKHILESH during the academic year 2022- 2023.

Place : Kalady Date:

2:

Examiner 1

Dr.JITHASHABALAN

Head Department of Microbiology Sree Sankara College, Kalady

02nd February 2023

# CERTIFICATE

This is to certify that the dissertation entitled "ISOLATION, SCREENING AND MOLECULAR CHARACTERIZATION OF PLANT GROWTH PROMOTING BACTERIA FROM MANGROVE ECOSYSTEM" is an authentic record of original research work done by Ms. ANJALI KRISHNAN U (Reg. No: 200021043865) students of B.Sc. Microbiology, Sree Sankara College, Kalady, Ernakulam under my supervision and guidance in Amplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Microbiology. This dissertation in full or parts have not been submitted to any other institute or University for the award of any degree or diploma. Further it is certified that this dissertation represents an independent work done by the candidate under my supervision.

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KERALA STATE POLLUTION CONTROL BOARD APPROVED LABORATORY



02<sup>nd</sup> February 2023

### CERTIFICATE

This is to certify that the dissertation entitled "ISOLATION, SCREENING AND **M DLECULAR CHARACTERIZATION OF PLANT GROWTH PROMOTING** B. CTERIA FROM MANGROVE ECOSYSTEM" is an authentic record of original res arch work done by Ms. ASWATHY R (Reg. No: 200021043870) students of B.Sc. M robiology, Sree Sankara College, Kalady, Ernakulam under my supervision and guidance in mplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Microbiology. This dissertation in full or parts have not been submitted to any other institute or University for the award of any deg ee or diploma. Further it is certified that this dissertation represents an independent work don by the candidate under my supervision.

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02<sup>nd</sup> February 2023

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This is to certify that the dissertation entitled "ISOLATION, SCREENING AND MOLECULAR CHARACTERIZATION OF PLANT GROWTH PROMOTING BACTERIA FROM MANGROVE ECOSYSTEM" is an authentic record of original research work done by Ms. BESSY ELDHOSE (Reg. No: 200021043871) students of B.Sc. Microbiology, Sree Sankara College, Kalady, Ernakulam under my supervision and guidance in Amplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Microbiology. This dissertation in full or parts have not been submitted to any other institute or University for the award of any degree or diploma. Further it is certified that this dissertation represents an independent work done by the candidate under my supervision.

Dr. Akhilesh. V. P (Supervising Guide)

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### **BONAFIDE CERTIFICATE**

This is to certify that the dissertation entitled "ISOLATION AND MOLECULAR IDENTIFICATION OF PIGMENT PRODUCING BACTERIA FROM SOIL AND THE TESTING OF ANTIMICROBIAL ACTIVITY OF EXTRACTED PIGMENTS" submitted to Mahatma Gandhi University in the partial fulfillment of the requirements for the award of degree of BACACHELOR OF SCIENCE IN MICROBIOLOGY, is a record of original work done by ADITHYA M P, ANUSREE SAJEEV, DEVI M and HARPITH JAIJU rnder the guidance of Dr. Akhilesh. V. P Supervising guide, Amplicon Biolabs, KINFRA, , ( rring the academic year 2020-23.

Dr. JITHASHA BAL

Dr. JITHASHA BALAN

Head, Department of Microbiology Sree Sankara College, Kalady

P ice: Kalady D ice: 05-04-2023

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02nd February 2023

### CERTIFICATE

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This is to certify that the dissertation entitled "ISOLATION AND MOLECULAR **IDENTIFICATION OF PIGMENT PRODUCING BACTERIA FROM SOIL AND** THE TESTING OF ANTIMICROBIAL ACTIVITY OF EXTRACTED PIGMENTS" is an authentic record of original research work done by Ms. ADITHYA M P (Reg. No: 200021043858) students of B.Sc. Microbiology, Sree Sankara College, Kalady, Emakulam under my supervision and guidance in Amplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Microbiology. This dissertation in full or parts have not been submitted to any other institute or University for the award of any degree or diploma. Further it is certified that this dissertation represents an independent work done by the candidate under my supervision.



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Senior Analyst Amplicon Biolabs, KINFRA Kakkanchery, Galicut University Post, Malappuram 673635

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# BONAFIDE CERTIFICATE

This is to certify that the dissertation entitled "APPLICATION OF BACTERIOPHAGE FOR BACTERIAL BIOFILM CONTROL" submitted to Mahatma Gandhi University in the partial fulfilment of the requirements for the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY is a record of original work done by KRISHNAPRIYA T S and ROSHNI SHIBU under the guidance of Dr JITHASHA BALAN, Head, Department of Microbiology, Sree Sankara College, Kalady, during the academic year 2022-2023.

Examiners: 1. 2.

Dr. JITHASHA BALAN Head, Department of Microbiology



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### CERTIFICATE

This is to certify that, the dissertation entitled "ISOLATION OF MICROORGANISMS FROM CATTLE AND FISH FEED AND ANALYSIS OF THEIR ANTIBIOTIC RESISTANCE" submitted to Mahatma Gandhi Univeristy, Kottayam in the partial fulfilment of the award of the degree of BACHELOR OF SCIENCE IN MICROBOLOGY, is a record of bonafide work carried out by ALKA SHILU, ENSA ELDHOSE, FARSANA NAJEEB and JINSA JOSE under my guidance and no part the work has been submitted for the award of any degree during the academic year 2022-2023.

Place : Kalady Date : 24/4/23 Mrs. Jiya Paul Assistant Professor Department of Microbiology Sree Sankara College, Kalady Biotechnology



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# BONAFIDE CERTIFICATE

This is to certify that, the dissertation entitled "EVALUATION OF FAECAL COLIFORMS AND BACTERIAL PATHOGENS PRESENT IN VARIOUS CHUTNEY SAMPLES COLLECTED FROM LOCAL FOOD SHOPS IN ANGAMALY" submitted to Mahatma Gandhi University, Kottayam in the partial fulfilment of the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY, is a record of original work carried out by GAYATHRI R and GOWRI NANDANA R under the guidance of Mrs.Seena Kuruvilla, Assistant Professor, Department of Microbiology, Sree Sankara College, Kalady during the academic year 2022-2023

Examiner 1.

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Dr. Jithasha Balan

Head of Microbiology Department Sree Sankara College Kalady

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#### BONAFIDE CERTIFICATE

This is to certify that the dissertation entitled "HYDROCARBON DEGRADATION POTENTIAL OF INDIGENOUS BACTERIA ISOLATED FROM ENGINE OIL -CONTAMINATED AREA OF COCHIN" submitted to Mahatma Gandhi University in the partial fulfillment of the requirements for the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY is record of original work done by AMRUTHA HARI, JEAN MERIN ALEX, JERIN JACOB and KLEIN ANTONY KADICHEENI under the guidance of Dr. JITHASHA BALAN, Assistant Professor, Head of the Department of Microbiology, Sree Sankara College Kalady, during the academic year 2022-2023.

Examiners:1

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23 4 Dr. JPTHASHA BALAN

Head, Department of Microbiology Sree Sankara College, Kalady

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BONAFIDE CERTIFICATE

This is to certify that, the dissertation entitled "A STUDY ON THE PREVALENCE OF SALMONELLA SP. PRESENT IN MAYONNAISE PREPARED FROM DIFFERENT VARIETIES OF EGG AND THE IMPORTANCE OF NATURAL PRESERVATIVES" submitted to Mahatma Gandhi University, Kottayam in the partial fulfilment of the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY, is a record of original work carried out by ROSE MOL POLY and FARSANA SUBAIR under the guidance of Mrs.Seena Kuruvilla, Assistant Professor, Department of Microbiology, Sree Sankara College, Kalady during the academic year 2022-2023

Examiner: 1.

Dr. Jithasha Balan

Head of Microbiology Department

Sree Sankara College Kalady



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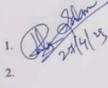
This is to certify that the dissertation entitled "IN VITRO BIOACTIVITY AND PHYTOCHEMICAL SCREENING OF SELECTED SPICES UNDER DIFFERENT EXTRACTION SOLVENTS" submitted to Mahatma Gandhi University in the partial fulfillment of the requirements for the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY, is a record of original work done by ABHAYI MOHAN, ALBIN VARGHESE, JERIN JACOB AND THOMAS JOHN K under the guidance of Dr. AKHILESH. V.P, academic coordinator of Ampilicon biolab, KINFRA, Kakkanchery during the academic year 2022-23.

Place: Kalady Date: 5/4/23

23

Dr. JITHASHA BALAN Head, Department of Microbiology Sree Sankara college, Kalady

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31st January 2023

#### CERTIFICATE

This is to certify that the dissertation entitled "IN VITRO BIOACTIVITY AND PHYTOCHEMICAL SCREENING OF SELECTED SPICES UNDER DIFFERENT EXTRACTION SOLVENTS" is an authentic record of original research work done by Mr. ABHAYI MOHAN (Reg. No: 200021043857) students of B.Sc. Microbiology, Sree Sankara College, Kalady, Ernakulam under my supervision and guidance in Amplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Microbiology. This dissertation in full or parts have not been submitted to any other institute or University for the award of any degree or diploma. Further it is certified that this dissertation represents an independent work done by the candidate under my supervision.

Dr. Akhilesh. V. P (Supervising Guide)

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31ª January 2023

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Dr. Akhilesh. V. P

(Supervising Guide) Dr. Alchilesh. V. p Senior Analyst Amoles listic surps

Kaldanchory, Calcul University Par Malapouran Criston

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### CERTIFICATE

BioLabs

This is to certify that the dissertation entitled "IN VITRO BIOACTIVITY AND PHYTOCHEMICAL SCREENING OF SELECTED SPICES UNDER DIFFERENT EXTRACTION SOLVENTS" is an authentic record of original research work done by Mr. JERIN JACOB (Reg. No: 200021043884) students of B.Sc. Microbiology, Sree Sankara College, Kalady, Ernakulam under my supervision and guidance in Amplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Microbiology. This dissertation in full or parts have not been submitted to any other institute or University for the award of any degree or diploma. Further it is certified that this dissertation represents an independent work done by the candidate under my supervision.

Dr. Akhilesh. V. P (Supervising Guide) Dr. Akhilesh. V. P Senior Analyst Amplican Biolabs, KINFRA, Kaldranchery, Cishout Uciversity Post, Malappuram 673635

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31st January 2023

Dr. Akhilesh. V. P (Supervising Guide) Dr. Akhilesh. V. P Senior Analyst Amplices Biolabs, KINFRA, Kabianchery, Calcut University Post, Malappuram 673635

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### BONAFIDE CERTIFICATE

This is to certify that the dissertation entitled "EFFECT OF MORINGA OLEIFERA SEEDS ON THE MICROBIOLOGICAL AND PHYSICO CHEMICAL PARAMETERS OF DIFFERENT WATER SOURCES" submitted to Mahatma Gandhi University in the partial fulfilment of the requirements for the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY is a bonafide work carried out by FATHIMA SAFA K. S, KRISHNENDU S KUMAR, SREELAKSHMI K. S under the guidance of Dr. AKHILESH V.P, academic coordinator of Amplicon Biolab, KINFRA, Kakkanchery during the academic year 2022-2023.

Place: Kalady

Date: 05-04-2023

Dr. JITHASHA BALAN

Head, Department of Microbiology

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2. Alm



02rd February 2023

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Dr. Akhilesh. V. P (Supervising Guide) Dr. Akhilesh. V. P Senior Analyst Amplican Biotsky, NUTRA, Kakkanchry, Calcut University Post, Mitheorem 671613

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Dr. Akhilesh. V. P

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Examiners: 1. 23/4/23 2. Ahnly

Dr. JITHASHA

Head, Department of Microbiology,



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Dr. V. P. Akhilesh

(Supervising Guide) Dr. Akhilesh. V. P Senior Analyst

Amplicon Biotabs, KINFRA, Kaldanchery, Calicut University Post, Matappuram 673635

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Dr. V. P. Akhilesh (Supervising Guide)

Senior Analyst Amplicen Biolabs, KINFRA, Kaldrachery, Caleof University Post, Malsepurart 873635

Dr. Akhilesh. V. P

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Dr. Akhilesh. V. P Senior Analyst

dicon Biolabs, KINFRA y. Calicut University Post. Malanpuram 673635

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SREE SANKARA COLLEGE, KALADY DEPARTMENT OF MICROBIOLOGY Post Box-1 Kalady-683574 Ph.no.0484-246323

#### BONAFIDE CERTIFICATE

This is to certify that the dissertation entitled "IN VITRO STUDIES ON THE EFFICIENCY OF CITRUS PEELS IN THE CONTROL OF BACTERIA CAUSING LEAF SPOT DISEASE IN PIPER NIGRUM" submitted to Mahatma Gandhi University in the partial fulfilment of the requirements of the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY is a bonafide work carried out by AFNITHA T. S, NANDHANA BLJU, SNEHA P THOMAS under the guidance of Dr. AKHILESH .V.P, academic coordinator of Amplicon Biolab, KINFRA, Kakkanchery during the academic year 2022-2023.

Dr. JITHASHA BALAN Head, Department of Microbiology Sree Sankara College, Kalady

Place: Kalady Date: 5/4/23

Examiner 1.



02<sup>od</sup> February 2023

#### CERTIFICATE

This is to certify that the dissertation entitled "IN VITRO STUDIES ON THE EFFICIENCY OF CITRUS PEELS IN THE CONTROL OF BACTERIA CAUSING LEAF SPOT DISEASE IN PIPER NIGRUM" is an authentic record of original research work done by Ms. AFNITHA T S (Reg. No: 200021043859) students of B.Sc. Microbiology. Sree Sankara College, Kalady, Ernakulam under my supervision and guidance in Amplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Microbiology. This dissertation in full or parts have not been submitted to any other institute or University for the award of any degree or diploma. Further it is certified that this dissertation represents an independent work done by the candidate under my supervision.

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Dr. Akhilesh. V. P

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dissertation entitled ISOLATION AND This is to certify that the CHARACTERISATION OF PATHOGENIC BACTERIA PREVALENCE IN, CHICKEN INTESTINE AND FRESH FRUIT ; STUDY OF BACTERIAL RESISTANCE TO ANTIBIOTICS AND ITS CONTROL USING DIFFERENT PLANT EXTRACTS submitted to Mahatma Gandhi University in the partial fulfilment of the requirements for the award of the degree of BACHELOR OF SCIENCE IN MICROBIOLOGY, is a record of original work done by ANJALA SHIRIN, NIDHA SHERIN, SREELAXMY SIVASANKAR under the guidance of Dr.AKHILESH.V.P, academic coordinator of Amplicon Biolab, KINFRA, Kakkanchery during the academic year 2022-23.

Place: Kalady

Date : 25/4/23

Dr. JITHASHA BALAN

Head, Department of Microbiology Sree Sankara College, Kalady

Examiners 1. DB

2. Achuly

02<sup>nd</sup> February 2023

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Dr. Akhilesh. V. P

Dr. Akhilesh. V. P (Supervising Guide)



02<sup>nd</sup> February 2023

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This is to certify that **ADITH J. S.,** Adm. No. A1557, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **ANGELA EMAILY MARTIN**, Adm. No. A1488, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **ANISHMA T. P.,** Adm. No. A1491, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **ANNTHERESE PAUL**, Adm. No. A1505, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **ANNMARIYA JOHNY**, Adm. No. A1508, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **ATHULKRISHNA K. B.**, Adm. No. A1502, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **ATHULYA ARAVIND**, Adm. No. A1516, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **BHAVAPRIYA SUSEEL**, Adm. No. A1546, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **DAYA SHAJI**, Adm. No. A1513, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **DEVANANDAN P BALAN**, Adm. No. A1550, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **DEVIKA P. S.,** Adm. No. A1503, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **DHIYA MARIYAM ANCHERIL**, Adm. No. A1590, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **DINU VARGHESE**, Adm. No. A1482, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **DIYA SHAJI**, Adm. No. A1514, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **EDWIN M JOLLY**, Adm. No. A1559, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **FARHATH FATHIMA P.,** Adm. No. A1553, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **GAYATHRI N.,** Adm. No. A1521, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **GOPIKA K.**, Adm. No. A1548, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

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This is to certify that **JINUMOL JOSE**, Adm. No. A1504, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **JYOTHIKA JAYAN**, Adm. No. A1506, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **KRISHNAPRIYA P. S.**, Adm. No. A1509, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **LIYA SHYJAN**, Adm. No. A1583, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **NAFIDHA NAJEEB**, Adm. No. A1519, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **NANDANA BIJU**, Adm. No. A1510, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **NIJISHA M. G.,** Adm. No. A1586, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **PRANAV JOMON**, Adm. No. A1518, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **PRANAV M. S.,** Adm. No. A1478, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **ROHITH K. U.,** Adm. No. A1495, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **SANDRA SABU**, Adm. No. A1538, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair



This is to certify that **SENNA SANTHOSH**, Adm. No. A1512, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **SNEHA K GEORGE**, Adm. No. A1517, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **SRAVANA A. S.,** Adm. No. A1479, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair

Principal



This is to certify that **SREELAKSHMI SASI**, Adm. No. A1532, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **SREENITHA MURALI**, Adm. No. A1520, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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This is to certify that **SULFATH O. S.,** Adm. No. A1563, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.

Dr. Minimol K. C. Course Coordinator



Dr. Preethi Nair

Principal



This is to certify that **SULFATH SUDHEER**, Adm. No. A1607, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **VISHNUPRIYA T. S.,** Adm. No. A1551, First Semester B. Sc. Microbiology has completed a project titled **'Organic Manure Making'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **ADITH J. S.**, Adm. No. A1557, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **ANGELA EMAILY MARTIN**, Adm. No. A1488, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **ANISHMA T. P.**, Adm. No. A1491, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



# **SREE SANKARA COLLEGE, KALADY**

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## CERTIFICATE

This is to certify that **ANNTHERESE PAUL**, Adm. No. A1505, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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## CERTIFICATE

This is to certify that **ANNMARIYA JOHNY**, Adm. No. A1508, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **APARNA P.**, Adm. No. A1511, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **APARNA S KURUP**, Adm. No. A1484, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **ASHMY SHAMSUDHEEN**, Adm. No. A1582, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **ASHWATHY P PRADEEP**, Adm. No. A1542, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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## CERTIFICATE

This is to certify that **ATHULKRISHNA K. B.**, Adm. No. A1502, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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## CERTIFICATE

This is to certify that **ATHULYA ARAVIND**, Adm. No. A1516, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **BHAVAPRIYA SUSEEL**, Adm. No. A1546, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **DAYA SHAJI**, Adm. No. A1513, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **DEVANANDAN P BALAN**, Adm. No. A1550, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **DEVIKA P. S.**, Adm. No. A1503, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **DHIYA MARIYAM ANCHERIL**, Adm. No. A1590, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **DINU VARGHESE**, Adm. No. A1482, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **DIYA SHAJI**, Adm. No. A1514, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **EDWIN M JOLLY**, Adm. No. A1559, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **FARHATH FATHIMA P.**, Adm. No. A1553, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **GAYATHRI N.**, Adm. No. A1521, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **GOPIKA K.**, Adm. No. A1548, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **HARIPRIYA SANTHOSH**, Adm. No. A1507, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **JINUMOL JOSE**, Adm. No. A1504, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **JYOTHIKA JAYAN**, Adm. No. A1506, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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## CERTIFICATE

This is to certify that **KRISHNAPRIYA P. S.**, Adm. No. A1509, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **LIYA SHYJAN**, Adm. No. A1583, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **NAFIDHA NAJEEB**, Adm. No. A1519, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **NANDANA BIJU**, Adm. No. A1510, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **NIJISHA M. G.**, Adm. No. A1586, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **PRANAV JOMON**, Adm. No. A1518, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **PRANAV M. S.**, Adm. No. A1478, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **ROHITH K. U.**, Adm. No. A1495, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **SANDRA SABU**, Adm. No. A1538, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **SENNA SANTHOSH**, Adm. No. A1512, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **SNEHA K GEORGE**, Adm. No. A1517, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **SRAVANA A. S.**, Adm. No. A1479, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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### CERTIFICATE

This is to certify that **SREELAKSHMI SASI**, Adm. No. A1532, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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### CERTIFICATE

This is to certify that **SREENITHA MURALI**, Adm. No. A1520, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **SULFATH O. S.**, Adm. No. A1563, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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## CERTIFICATE

This is to certify that **SULFATH SUDHEER**, Adm. No. A1607, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



Dr. Preethi Nair Principal



This is to certify that **VISHNUPRIYA T. S.**, Adm. No. A1551, Second Semester B. Sc. Microbiology has completed a project titled **'Organic Farming'** as part of the Massive Open Online Course of Mahatma Gandhi University on 'Organic Farming' during the academic year 2022-23.



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