

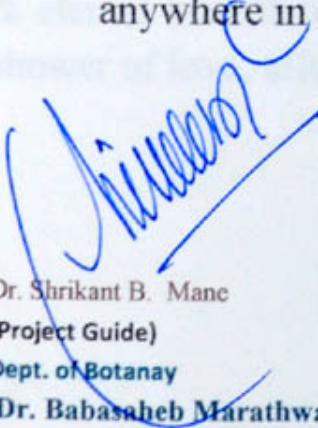


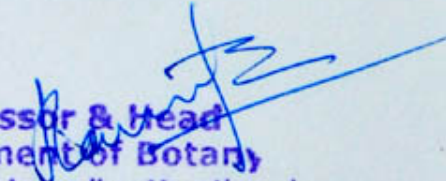
**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.**

DEPARTMENT OF BOTANY,

### **CERTIFICATE**

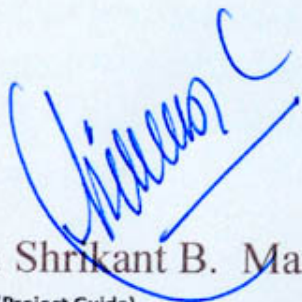
This is certifying that the present work in the form of project entitled "*Use of different plant extract for control of viral diseases of Tomato*" is carried out by Miss. **Kolhe Dipali M.** student of M.Sc. IV Semester during the academic year 2017-2018 under my guidance and supervision in Department of Botany, Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD. It has not been submitted or published anywhere in any form earlier.

  
Dr. Shrikant B. Mane  
(Project Guide)  
Dept. of Botanay  
Dr. Babasaheb Marathwada University, Aurangabad.

  
**Professor & Head**  
**Department of Botany**  
Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad-431004  
Head of Botany Department  
Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad.

## CERTIFICATE

This is certifying that the present work in the form of project entitled "*use of different plant extract for control the viral disease of chilli*" is carried out by **Ku Mulik Anuja Vishnu**, student of M.Sc. IV Semester during the academic year 2017-2018 under my guidance and supervision in Department of Botany, Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD. It has not been submitted or published anywhere in any form.

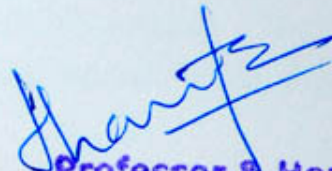


Dr. Shrikant B. Mane

(Project Guide)

Dept. of Botany

Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad.



Prof. Arvind Dhabe  
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Head of Botany Department  
Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad.

**DR. BABASAHEB AMBEDKAR MARATHWADA  
UNIVERSITY AURANGABAD**




**CERTIFICATE**

This is certified that, student of Botany has successfully completed the project entitled “**In vitro study of isolation of trichoderma from different soil**” which is an original work carried out by the candidates for M.Sc. research project in Botany Department, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Under my Supervision it is work done by Miss. Kalpana gangadhar gaikwad M.Sc. Second year During the Academic year 2017-2018.

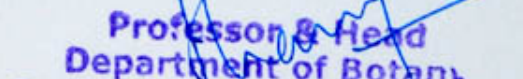
**Guided by**

  
Dr. S.B. Mane

Dept. of Botany

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**Head of Department**

  
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**DR. BABASAHEB AMBEDKAR MARATHWADA  
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**DECLARATION**



**CERTIFICATE**

*This is certified that, student of Botany has successfully completed the project entitled "Isolation of Agriculture Waste Decomposing Fungi" which is an original work carried out by the candidates for M.Sc. research project in Botany Department, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.*

*Under my Supervision it is work done by Miss.pooja Bhagwat Ghadse. M.Sc. Second year During the Academic year 2017-2018.*

**Guided by**

**Dr. Shikant B. Mane**

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**Head of dept  
Professor & Head  
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**Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad-431004**

**Dr. Arvind S. Dhabe**

Dept. Of Botany

## CERTIFICATE


**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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This is to certify that, the present work in the form of dissertation entitled "ENUMERATION OF HERBARIUM SPECIMAN'S OF BAMU HERBARIA" carried out by **Miss. Parthiva Kavita Manohar** student of **M.Sc. IInd year** during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

Date :

Place :

  
**Prof. Arvind S. Shinde**  
(Research Guide)  
Department of Botany,  
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# CERTIFICATE

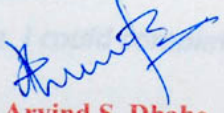
**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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This is to certify that, the present work in the form of dissertation entitled "ENUMERATION OF HERBARIUM SPECIMAN'S OF BAMU HERBARIA" carried out by Miss. Bhale Priti Sharad student of M.Sc. IInd year during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

Date :

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**Prof. Arvind S. Dhabe**  
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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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This is to certify that, the present work in the form of dissertation entitled "ENUMERATION OF HERBARIUM SPECIMAN'S OF BAMU HERBARIA" carried out by **Mr. Tandale Gopal Sakharam** student of **M.Sc. IInd year** during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

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This is to certify that, the present work in the form of dissertation entitled "ENUMERATION OF HERBARIUM SPECIMAN'S OF BAMU HERBARIA" carried out by **Mr. Halge Onkar Sadashivappa** student of **M.Sc. IInd year** during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

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Ref. No. Bot/.....

Date : .....

## **CERTIFICATE**

This is to certify that Miss. **MANE SUJATA SUNIL** is an M.Sc. final year student has carried out his M.Sc. Dissertation entitled "**To Study Back Cross Programme of Sesame**" Plant of a part of partial fulfilment for the degree of MASTER OF SCIENCE IN BOTANY under my supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

**Professor & Head**  
**Department of Botany**  
**Dr. Babasaheb Ambedkar Marathwada**  
**University, Aurangabad-431004**

**Project guide**

**Dr. N. B. PANDHURE.**

**Research Guide**  
**Dept. of Botany**  
**Dr. Babasaheb Ambedkar Marathwada University,**  
**Aurangabad - 431 004.**

**Examiner:-**

**Date: - 22/03/2018**

**Place: - Aurangabad**



Dept. of Botany

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
AURANGABAD, MAHARASHTRA, INDIA

## CERTIFICATE

This is to certify that the present work in the form of Dissertation entitle in  
“**STUDIES OF GENOTOXIC EFFECT OF *koelreuteria paniculata* laxm.  
AND *Argemone Mexicana*”** carried out by **Gaje Kaveri Machhindra**,  
student of 3<sup>rd</sup> and 4<sup>th</sup> semester during the academic year 2017-2018 under my  
guidance and supervision in department of Botany Dr.Babasaheb Ambedkar  
Marathwada University, Aurangabad. It has not been submitted or published  
anywhere in any form.

GUIDED BY

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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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CERTIFICATE

This is to certify that the present work in the form of Dissertation entitle in **INDUCTION OF MUTATION IN VIGNA UNGUICULATA L. USING CHEMICAL MUTAGENS** carried out by **TANAJI PRABHAKAR YEWATE** student of 3<sup>rd</sup> and 4<sup>th</sup> semester during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr.Babasaheb Ambedkar Marathwada University, Aurangabad. It has not been submitted or published anywhere in any form.

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**Prof. Dr. Arvind S. Dhabe**  
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**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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## CERTIFICATE

This is to certify that the present work in the form of dissertation entitled **"Induction of Mutation using chemical mutagens and Biochemical analysis of Trigonella foenum-graecum (fenugreek) L."** is carried out by Miss. Borade Jayashri Satishrao student of M.Sc. III<sup>rd</sup> and IV<sup>th</sup> Semester during the Academic year 2017-18 under my Guidance and Supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. It has not been submitted or published anywhere in any form.

**Prof. Dr. Arvind S. Dhabe**

**Professor and Head**

**Department of Botany**

**Dr. Babasaheb Ambedkar Marathwada**

**University, Aurangabad 431004**

**Dept. of Botany,**

**Dr. B.A.M.U. Aurangabad**

**Guide**

**Dr. N.B. Pandhure**

**Associate Professor,**

**Dr. Narayan B. Pandhure**

**Dept. of Botany**

**Dr. B.A.M.U. Aurangabad**

**Research Guide, Dept. of Botany**

**Dr. Babasaheb Ambedkar Marathwada University,**

**Aurangabad - 431 004.**



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**Prof. Dr. Arvind S. Dhabe**  
Head of Department  
Professor and Head

Department of Botany  
Dr. Babasaheb Ambedkar Marathwada  
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Dr. B. A. M. U. Aurangabad

Guide

**Dr. N.B. Pandhure**  
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Dr. B. A. M. U. Aurangabad

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AURANGABAD-431 004  
(Maharashtra) INDIA

Date .....

Ref. No. Bot/.....

## CERTIFICATE

*This is to certify that the work incorporated in this thesis entitled "In vitro propagation of Mimosa pudica L." submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad by Ms. Supna Govardhan Argade for the award of the degree of Doctor of Philosophy in the subject of Botany was carried out by her under my supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. This work was not previously submitted by him to this or any other university for the award of any Degree, Diploma, or any other similar title.*

**Professor: Babasaheb Argade**  
Professor and Head  
Department of Botany  
Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad 431004

**Dr. Manjushree S. Patil**  
Research Guide, Dept. of Botany  
Dr. Babasaheb Ambedkar Marathwada University,  
(Research Guide)

# CERTIFICATE

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
AURNAGABAD MAHARASHTRA



This is to certify that, the present work in the form of dissertation entitled "EFFECT OF DIFFERENT PRESERVATION METHODS ON NUTRIENTS CONTENTS IN MENTHA SPICATA" carried out by Miss. Joshi Shubhangi Saktharam student of M.Sc. IInd year during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasahab Ambedkar Marathwada University Aurnagabad. It has not been submitted or published anywhere in any form.

**Dr. Babasahab Ambedkar**  
Research Guide, Dept. of Botany

Dr. Babasahab Ambedkar Marathwada University,  
Aurnagabad - 431 004.

Department of Botany,

Dr. Babasahab Ambedkar

**Dr. A. S. Dhabe**

Head of Botany Department,

Professor & Head

**Dr. Babasahab Ambedkar**

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University, Aurnagabad - 431004



Dept. of Botany

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
AURANGABAD, MAHARASHTRA, INDIA

I hereby declare that the present research work is the one carried

"Antibacterial activity of plant extracts against bacterial blight of pomgranate"

is and original work carried out in the laboratory under the

guidance of Dr. S. B. Mane, Dr. Babasaheb Ambedkar Marathwada University.

## CERTIFICATE

This is to certify that, student of Dept. of Botany has successfully completed the project entitled "**Antibacterial activity of plant extracts Bacterial blight of pomgranate**" which is an Original work carried by the candidate for M.Sc. Research Project in the laboratory of Plant Pathology, Dept of Botany, Dr. B.A.M.U. Aurangabad.

Under my supervision it'd work done by Mr. Abhishek Sitaram Raut, M. Sc. II year during the academic year 2017-2018

Place:- Aurangabad

GUIDED BY

Dr. Shrikant B. Mane

Dept. of Botany

Dr. B.A.M.U. Aurangabad

HEAD OF DEPARTMENT  
**Professor & Head**  
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Dr. B.A.M.U. Aurangabad





Department of Botany

## CERTIFICATE

This is to certify that, student of Department Botany has successfully completed the project entitled **ANTIFUNGAL ACTIVITY OF WILD MEDICINAL PLANTS EXTRACT AGAINST FUNGAL PATHOGEN** which is an Original work carried by the candidate for M.Sc. Research Project in the laboratory of Plant Pathology, Department of Botany, Dr. B.A.M.U. Aurangabad.

Under my supervision it'd work done by Mr. Vishal Shesharao Rathod, M. Sc. II year during the academic year 2017-2018.

  
GUIDED BY

Dr. Shrikant B. Mane

Dept. of Botany

Dr. B.A.M.U. Aurangabad.

  
HEAD OF DEPARTMENT

Prof. Arvind S. Dhabe

Dept. of Botany

Dr. B.A.M.U. Aurangabad.

Place: Aurangabad

Mr. Vishal Shesharao Rathod

## CERTIFICATE



Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Dept of Botany

This is to certify that Miss. **Sanna Mansur Shaikh**, student M.Sc. II, Dept. of Botany, has successfully completed the project work entitled "Biogenic Synthesis of Silver and Gold nano-particles using Fungi" which is an Original work carried by the candidate for M.Sc. Research Project in the laboratory of Plant Pathology, Dept of Botany, Dr. B.A.M.U. Aurangabad.

Under My supervision it'd work done by **Miss. Sanna Mansur Shaikh**, M. Sc. II year during the academic year 2017-2018

Guided By

Dr. Shrikant B. Mane

Dept. of Botany

Dr. B.A.M.U. Aurangabad

Professor & Head  
Department of Botany  
Head of Department  
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Prof. A. S. Dhabbe

Dept. of Botany

Dr. B.A.M.U. Aurangabad

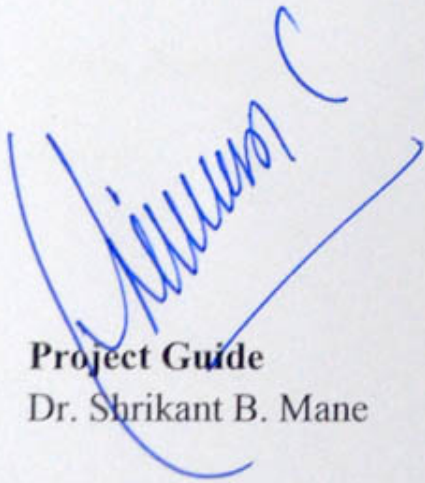
**Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad**

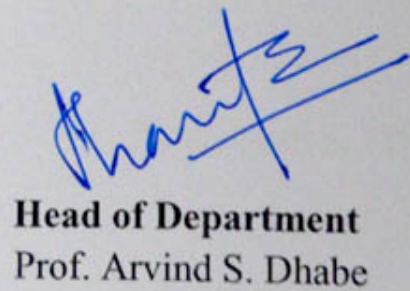


**Department of Botany**

**CERTIFICATE**

This is certified that, Mis. **Swati Govind Thoke** student of Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, has successfully completed the project entitled, "**Rhizosphere Mycoflora of Tomato field**" which is an original work.

  
**Project Guide**  
Dr. Shrikant B. Mane

  
**Head of Department**  
Prof. Arvind S. Dhabe

**Professor & Head  
Department of Botany  
Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad-431004**

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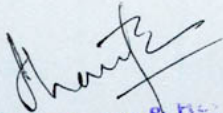
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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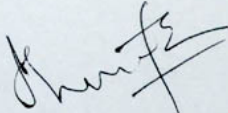


This is to certify that, the present work in the form of dissertation entitled "ENUMERATION OF HERBARIUM SPECIMAN'S OF BAMU HERBARIA" carried out by Miss. Ganjare Sandhya Gangadhar student of M.Sc. II<sup>nd</sup> year during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

Date :

Place :

  
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ACKNOWLEDGEMENT



CERTIFICATE

This is to certify that the present work in the form of Dissertation entitle in **“Enumerateion of Herbarium Speciman of BAMU Herbaria”** carried out by Mrs.Gapat Swati Angad, student of 3<sup>rd</sup> and 4<sup>th</sup> semester during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr.Babasaheb Ambedkar Marathwada University, Aurangabad. It has not been submitted or published anywhere in any form

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**Professor & Head**  
**Department of Botany**  
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2017-18

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Ref. No. Bot./.....

Date .....

## **CERTIFICATE**

This is to certify that **MR. SALUNKE JOTIRAM DEVIDAS** is an M.Sc. final year student has carried out his M.Sc. Dissertation entitled "**To Study Back Cross Programme of Sesame**" Plant of a part of partial fulfilment for the degree of MASTER OF SCIENCE IN BOTANY under my supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

**Professor & Head**  
**Department of Botany**  
**Dr. Babasaheb Ambedkar Marathwada**  
**University, Aurangabad-431004**

**Project guide**

**Dr. N.B.PANDHURE .**  
*Dr. Narayan B. Pandhure*  
Research Guide, Dept. of Botany  
Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad - 431 004.

**Examiner :-**

**Date: -**

**Place: - Aurangabad**

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## **CERTIFICATE**

This is to certify that **MR. SALUNKE JOTIRAM DEVIDAS** is an M.Sc. final year student has carried out his M.Sc. Dissertation entitled "**To Study Back Cross Programme of Sesame**" Plant of a part of partial fulfilment for the degree of MASTER OF SCIENCE IN BOTANY under my supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

**Professor & Head**  
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**Dr. Babasaheb Ambedkar Marathwada**  
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**Examiner :-**

**Project guide**

**Dr. N.B.PANDHURE .**  
*Dr. Narayan B. Pandhure*  
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Aurangabad - 431 004.

Date: - 22/03/2018

Place: - Aurangabad

# CERTIFICATE

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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This is to certify that, the present work in the form of dissertation entitled **Back Cross programmed of Okra (*Abelmoschus esculantus* L.)** carried out by **Miss. Wagh Kavita Rangnath** student of M.Sc. IInd year during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

  
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DECLARATION

CERTIFICATE

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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This is to certify that, the present work in the form of dissertation entitled **Back Cross programmed of Okra (*Abelmoschus esculantus* L.)<sup>\*\*</sup>** carried out by. **Miss. Rajput Jaya P.** student of M.Sc. IInd year during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

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CERTIFICATE

This is to certify that the present work in the form of dissertation entitled "**Study of back cross programme in *Guizotia abyssinica* (L. f.) Cass.**" is carried out by **Miss. Davane Sunaina Sheshnarayan** student of M.Sc. III<sup>rd</sup> and IV<sup>th</sup> Semester during the Academic year 2017-18 under my Guidance and Supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. It has not been submitted or published anywhere in any form.

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This is to certify that the present work in the form of dissertation entitled "In vitro propagation of *Spilanthes acmella* Murr." is carried out by **Miss. Maya B. Hiwrale** student of M.Sc. III<sup>rd</sup> and IV<sup>th</sup> Semester during the Academic year 2017-18 under my Guidance and Supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. It has not been submitted or published anywhere in any form.

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# CERTIFICATE

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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This is to certify that, the present work in the form of dissertation entitled "EFFECT OF DIFFERENT PRESERVATION METHOD ON NUTRIENTS CONTENTS IN *MURRAYA KOENIGII*" carried out by Miss. Bhale Ashwini Ramesh student of M.Sc. IInd year during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

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This is to certify that, the present work in the form of dissertation entitled **"EFFECT OF PHYSICOCHEMICAL FACTORS ON PRODUCTIVITY OF CROP"** carried out by **Miss. Kamble Shweta Suresh** student of M.Sc. IInd year during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

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## **CERTIFICATE**

*This is to certify that the work incorporated in this thesis entitled "In propagation of Parkinsonia aculeata L." submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad by Ms. Sapna Sandiprao Deshmukh for the award of the degree of Doctor of Philosophy in the subject of Botany was carried out by her under my supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. This work was not previously submitted by him to this or any other university for the award of any Degree, Diploma, or any other similar title.*

**Dr. N. B. Pandhure**

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**Date: 09/04/2018**  
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**CERTIFICATE**

This is certified that, student of Botany has successfully completed the project entitled "In vitro study of some fungicide" which is an original work carried out by the candidates for M.Sc. research project in Botany Department, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Under my Supervision it is work done by Miss. Kalpana Ashokrao Kanmude M.Sc. Second year During the Academic year 2017-2018.

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## CERTIFICATE

### DECLARATION

This is to certify that, student of Dept. of Botany has successfully completed the project entitled "*Studies on Bioterioting Fungi From Different Fruits*" which is an Original work carried by the candidate for M.Sc. Research Project in the laboratory of Plant Pathology, Dept of Botany, Dr. B.A.M.U. Aurangabad.

Under my supervision it'd work done by **Miss. Rekha Vitthal Katkar** M. Sc. II year during the academic year 2017-2018.

GUIDED BY

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**CERTIFICATE**

This is certified that, student of Botany has successfully completed the project entitled "Preparation of spawn on varies media for improving efficiency" which is an original work carried out by the candidates **Shelke Manisha Bhagwanrao** for M.Sc. research project in Botany Department, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Under my Supervision it is work done by Miss. Shelke Manisha Bhagwanrao M.Sc. Second year During the Academic year 2017-2018.

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DEPARTMENT OF BOTANY,

## CERTIFICATE


This is certifying that the present work in the form of project entitled "*COMPARITIVE STUDY ON PLEUROTUS SPECIES ON DIFFERENT AGRICULTURAL WASTES (OYSTER MUSHROOM)*" is carried out by Miss. Jagdale Jagruti Jayram, student of M.Sc. IV Semester during the academic year 2017-2018 under my guidance and supervision in Department of Botany, Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD. It has not been submitted or published anywhere in any form earlier.

  
Dr. Shrikant B. Mane

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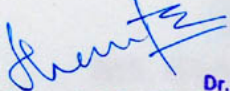


This is to certify that, the present work in the form of dissertation entitled "ENUMERATION OF HERBARIUM SPECIMAN'S OF BAMU HERBARIA" carried out by **Miss. Ghante Ambika Iranna** student of **M.Sc. IInd year** during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr. Babasaheb Ambedkar Marathwada University Aurangabad. It has not been submitted or published anywhere in any form.

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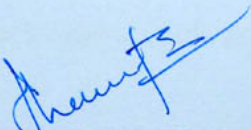
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This is to certify that the present work in the form of Dissertation entitle in  
“**STUDIES OF GENOTOXIC EFFECT OF *koelreuteria paniculata laxm.*  
*AND Argemone Mexicana*”** carried out by **Nayka jayshri subhash**, student of  
3<sup>rd</sup> and 4<sup>th</sup> semester during the academic year 2017-2018 under my guidance  
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This is to certify that the present work in the form of dissertation entitled **“Study of back cross programme in Guizotia abyssinica (L. f.) Cass.”** is carried out by **Mr. Vaibhav D. Misal** student of M.Sc. III<sup>rd</sup> and IV<sup>th</sup> Semester during the Academic year 2017-18 under my Guidance and Supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. It has not been submitted or published anywhere in any form.

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CERTIFICATE

This is to certify that the present work in the form of Dissertation entitle in *"INDUCTION OF MUTATION IN CYMOPSIS TETRAGONOLOBA L. USING CHEMICAL MUTAGENS"* carried out by MR. **WAVHALE MILIND MAHDEV**, student of 3<sup>rd</sup> and 4<sup>th</sup> semester during the academic year 2017-2018 under my guidance and supervision in department of Botany Dr.Babasaheb Ambedkar Marathwada University, Aurangabad. It has not been submitted or published anywhere in any form.

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## CERTIFICATE

This is to certify that the present work in the form of dissertation entitled "*In vitro* propagation of *Ceropegia bulbosa var. lushii*" is carried out by **Miss. Pratiksha P. Kulkarni** student of M.Sc. III<sup>rd</sup> and IV<sup>th</sup> Semester during the Academic year 2017-18 under my Guidance and Supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. It has not been submitted or published anywhere in any form.

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Date : .....

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*This is to certify that the work incorporated in this thesis entitled "In vitro studies in Andrographis paniculata" submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad by Miss. Pooja P. More for the award of the degree of Doctor of Philosophy in the subject of Botany was carried out by her under my supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. This work was not previously submitted by her to this or any other university for the award of any Degree, Diploma, or any other similar title.*

**Professor & Head**  
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**Date: 09/04/2018**

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**Dr. Narayan B. Pandhure**  
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## **CERTIFICATE**

*This is to certify that the work incorporated in this thesis entitled "In vitro studies in Passiflora foetida L." submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad by Ms. Ankita Swami Kanke for the award of the degree of Doctor of Philosophy in the subject of Botany was carried out by her under my supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. This work was not previously submitted by her to this or any other university for the award of any Degree, Diploma, or any other similar title.*

**Prof. Dr. Arvind S. Dhabe**

**Place: Aurangabad**

**Professor and Head**

**Department of Botany**

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**Date: 09/04/2018**

**Dr. N. B. Pandhure**

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## CERTIFICATE

This is to certify that the work incorporated in this thesis entitled  
*“In vitro studies in Solanum nigrum”* submitted to Dr. Babasaheb  
Ambedkar Marathwada University, Aurangabad by **Abdulrahman Esmail  
Mohammed Basha** for the award of the degree of Doctor of Philosophy in  
the subject of Botany was carried out by her under my supervision in the  
Department of Botany, Dr. Babasaheb Ambedkar Marathwada  
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by him to this or any other university for the award of any Degree,  
Diploma, or any other similar title.

Place: Aurangabad

Date: 09/04/2018

**Dr. N. B. Pandhure**

**Dr. (Research Guide)**

Research Guide, Dept. of Botany  
Dr. Babasaheb Ambedkar Marathwada University,  
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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
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## CERTIFICATE

This is to certify that the present work in the form of dissertation entitled "*In vitro* propagation of *Terminalia bellerica. Roxb*" is carried out by **Miss. Pallavi G.Tandlepatil** student of M.Sc. III<sup>rd</sup> and IV<sup>th</sup> Semester during the Academic year 2017-18 under my Guidance and Supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. It has not been submitted or published anywhere in any form.

**Prof. Dr. Arvind S. Dhabe**

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## CERTIFICATE

*This is to certify that the work incorporated in this dissertation entitled "In vitro studies in Gloriosa superba" L. submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad by Ms. Jyoti A. Bhutekar for the fulfillment of M.Sc. Degree in the subject of Botany was carried out by her under my supervision in the Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.].*

*This work was not previously submitted by him to this or any other university for the award of any Degree, Diploma, or any other similar title.*

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