Project work

VSR GOVT DEGREE & PG COLLEGE

Department of Botany

Name : B. B. BHARGHAV

Group: III B.Sc BTBC

Year: 2021 - 2022

Roll no: Y193223002

Topic:

Submitted to

V. Naga Laks[illegible]

Tomato

The tomato is the edible berry of the plant Solanum lycopersicum, commonly known as the tomato plant. The species originated in western South America, ...

Family: Solanaceae

Species: S. lycopersicum

Genus: Solanum

Kingdom: Plantae

The tomato is the edible berry of the plant Solanum lycopersicum,[1][2] commonly known as the tomato plant. The species originated in western South America, Mexico, and Central America.[2][3] The Mexican Nahuatl word tomatl gave rise to the Spanish word tomate, from which the English word

tomato derived.[3][4] Its domestication and use as a cultivated food may have originated with the indigenous peoples of Mexico.[2][5] The Aztecs used tomatoes in their cooking at the time of the Spanish conquest of the Aztec Empire, and after the Spanish encountered the tomato for the first time after their contact with the Aztecs, they brought the plant to Europe, in a widespread transfer of plants known as the Columbian exchange. From there, the tomato was introduced to other parts of the European-colonized world during the 16th century.Tomatoes are a significant source of umami flavor.[6] It is consumed in diverse ways: raw or cooked, and in many dishes, sauces, salads, and drinks. While tomatoes are fruits—botanically classified as berries—they are commonly used culinarily as a vegetable ingredient or side dish.[3]

Numerous varieties of the tomato plant are widely grown in temperate climates across the world, with greenhouses allowing for the production of tomatoes throughout all seasons of the year. Tomato plants typically grow to 1–3 meters (3–10 ft) in height. They are vines that have a weak stem that sprawls and typically needs support.[2] Indeterminate tomato plants are perennials in their native habitat, but are cultivated as annuals. (Determinate, or bush, plants are annuals that stop growing at a certain height and produce a crop all at once.) The size of the tomato varies according to the cultivar, with a range of 1–10 cm (1⁄2–4 in) in width.

Propagation

Tomato grafting is a horticulture technique that has been utilized in Asia and Europe for greenhouse and high tunnel production and is gaining popularity in the United States.[1] Typically, stock or rootstock are selected for their ability to resist infection by certain soilborne pathogens or their ability to increase vigor and fruit yield. The scion of the grafted tomato represents the upper portion of the plant and is selected for its fruit quality characteristics. There are several methods for grafting tomatoes and they have certain advantages and disadvantages. Once the grafts are made, the plants are moved into a chamber or environment with high relative humidity (>90%) and low light levels to reduce water stress in the scion while the graft union forms.

Many of us have started new houseplants from cuttings and maybe even shrubs or perennials for the garden, but did you know that many vegetables can be started in this manner too? Tomato propagation by cuttings is a perfect example and very easy to do. Read on to find out how to root tomato cuttings in water or directly in the soil.

Read more at Gardening Know How: Starting Tomato Cuttings: Rooting Tomato Cuttings In Water Or Soil https://www.gardeningknowhow.com/edible/vegetables/tomato/starting-tomato-cuttings.htm

If you admire a neighbor's lush tomato plant, starting tomato plants from cuttings is an excellent way to clone their plant and, hopefully, get the same vigorous result; just be polite and ask first before you snip from their prized plant. Rooting tomato cuttings is cost-saving as well. You can purchase a couple of plants and then root additional ones from the cuttings.

Project work

VSR GOVT DEGREE & PG COLLEGE

Department of Botany

Name : G. Divya

Group: III BSc (BtBC)

Year: 2021 - 2022

Roll no: 193223005

Topic:

Submitted to

V. Naga Lakshmi

ORANGE

Classification

Kingdom: Plantae

Division: Magnoliophyta

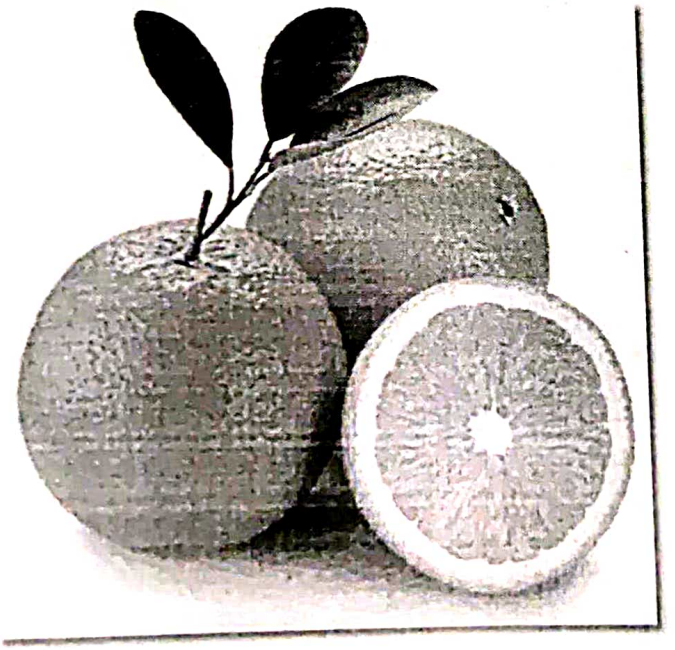
Class: Magnoliopsida

Subclass: Rosidae

Order: Sapindales

Family: Rutaceae

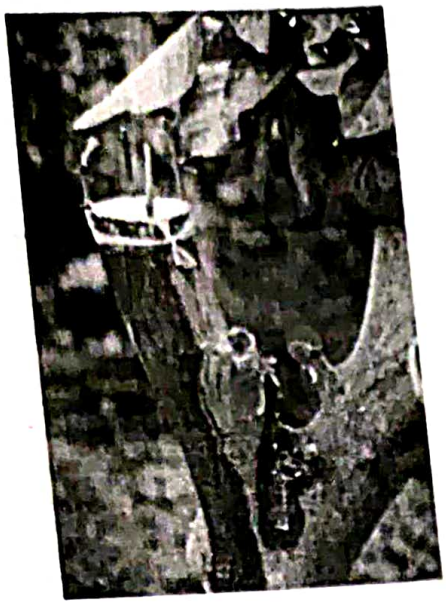
Genus: Citrus



Propagation methods

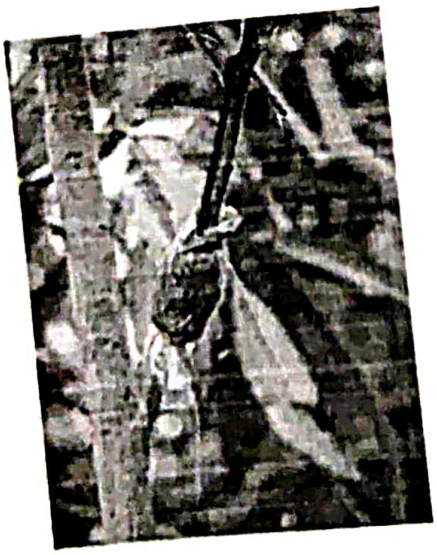
Sexual plant propagation

- **Advantages**
  - Sexual propagation uses seeds to produce new plants. Sexual propagation is relatively easy and often requires no special equipment.
  - Faster and more certain method of propagation.



Layering

- Easy way to propagate an orange tree. You can grow a new plant faster by air layering than from planting a seed. You can use this method to propagate all sorts of plants.
- The first method involves the removal of a ring of bark around a woody branch and then wrapping the site with growing media. Once roots form, the branch can be cut and potted separately.



Project work

VSR GOVT DEGREE & PG COLLEGE

Department of Botany

Name : G. Soniya

Group: III Bsc (BtBc)

Year: 2021-2022

Roll no: 04

Topic:

Submitted to

V. Naga Lakshmi

DAHLIA FLOWER :

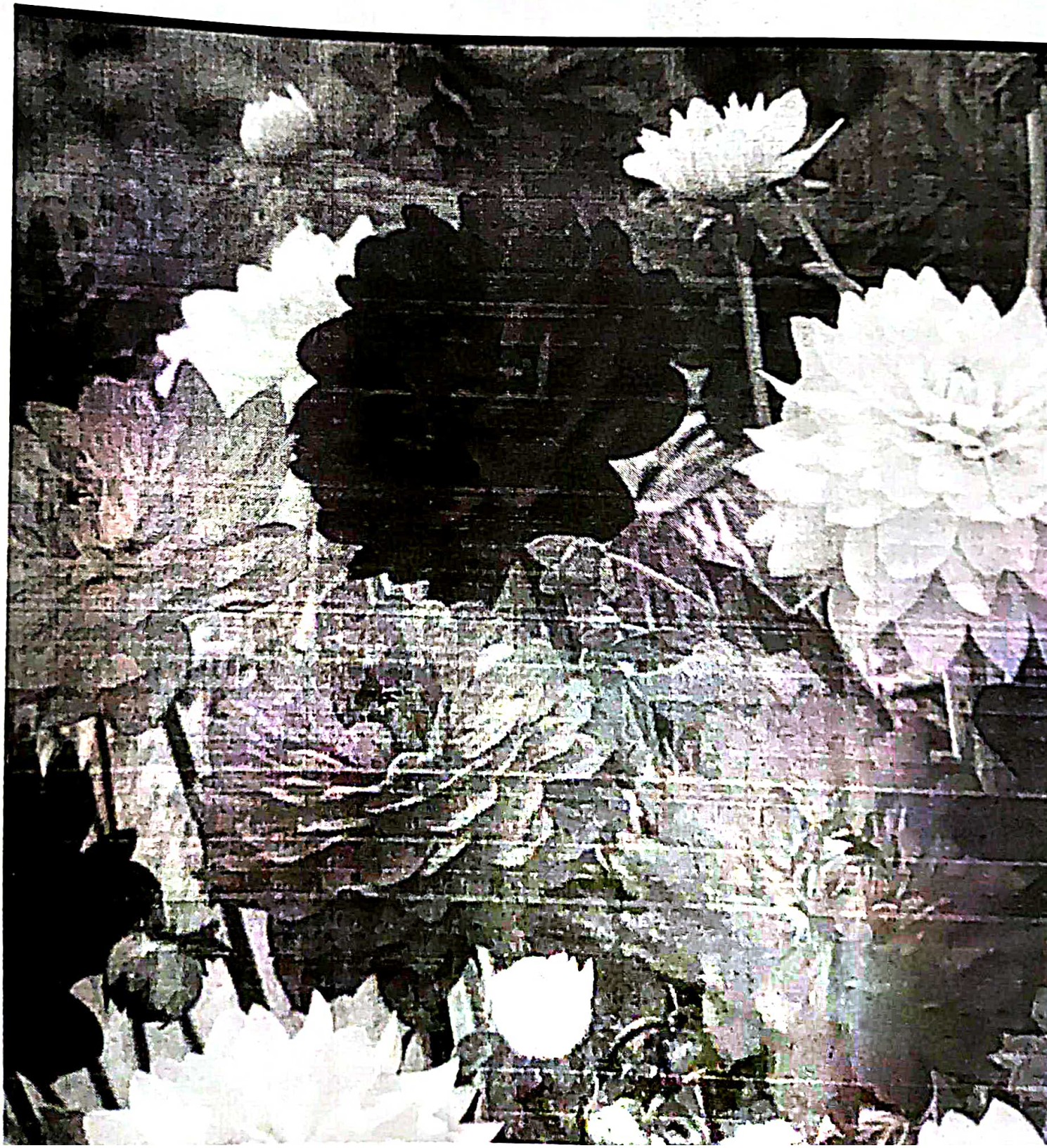
Classification

Scientific name: Dahlia

Order: Asterales

Family: Asteraceae

Kingdom: Plantae



Medicinal uses and benefits of Dahlia flowers :

- In Pre-Spanish Mexico, tubers were used due to high content of fructose and inulin.
- Petals and tubers were used by Aztecs for treating infected grazes, rashes and cracks in skin.
- Tubers skin is rich in antibiotic compounds.
- The crushed and mashed up petals are used to provide relief from stings or insect bites.
- Use poultice made from petals over insect stings and inflamed skin areas.
- Use the petals in footsoak to soothe tired feet.

How to eat :

- Flower petals are consumed by adding it to salads.
- In Mexico, tubers are consumed as vegetables.
- The sweet extract of tuber is combined with cold or hot water or milk or is sprinkled on ice cream.

Propagation methods of Dahlia flowers :

Sexually by seed, and asexually by tuberous root (whole or division), slip cuttings and stem cuttings.

Sexual reproduction :

By seedling :

Seeds sowed 5cm apart in trays in the 10 – 15 cm row distance or shallow pan in which a mixture of 50: 50 sand and compost are filled in. Seeds are sown 1cm deep in the soil. Seed germinates

Project Work

V.S.R GOVT DEGREE COLLEGE
Movva

Name:- M. Revathi

Group:- III B.Sc (Bio tech)

Year:- III rd.

RollNO:- 1193223010

Topic :-

Submitted to

V. Naga Lakshmi

SAPOTA

Classification:

Family: Sapotaceae

Species: P. sapota

Kingdom: Plantae

Order: Ericales

Uses:

Health benefits of sapota

1: Source of energy. Sapota is rich in glucose and calories that make it a source of energy. ...

2: Boost immunity. ...

3: Skin benefits. ...

4: Hair benefits. ...

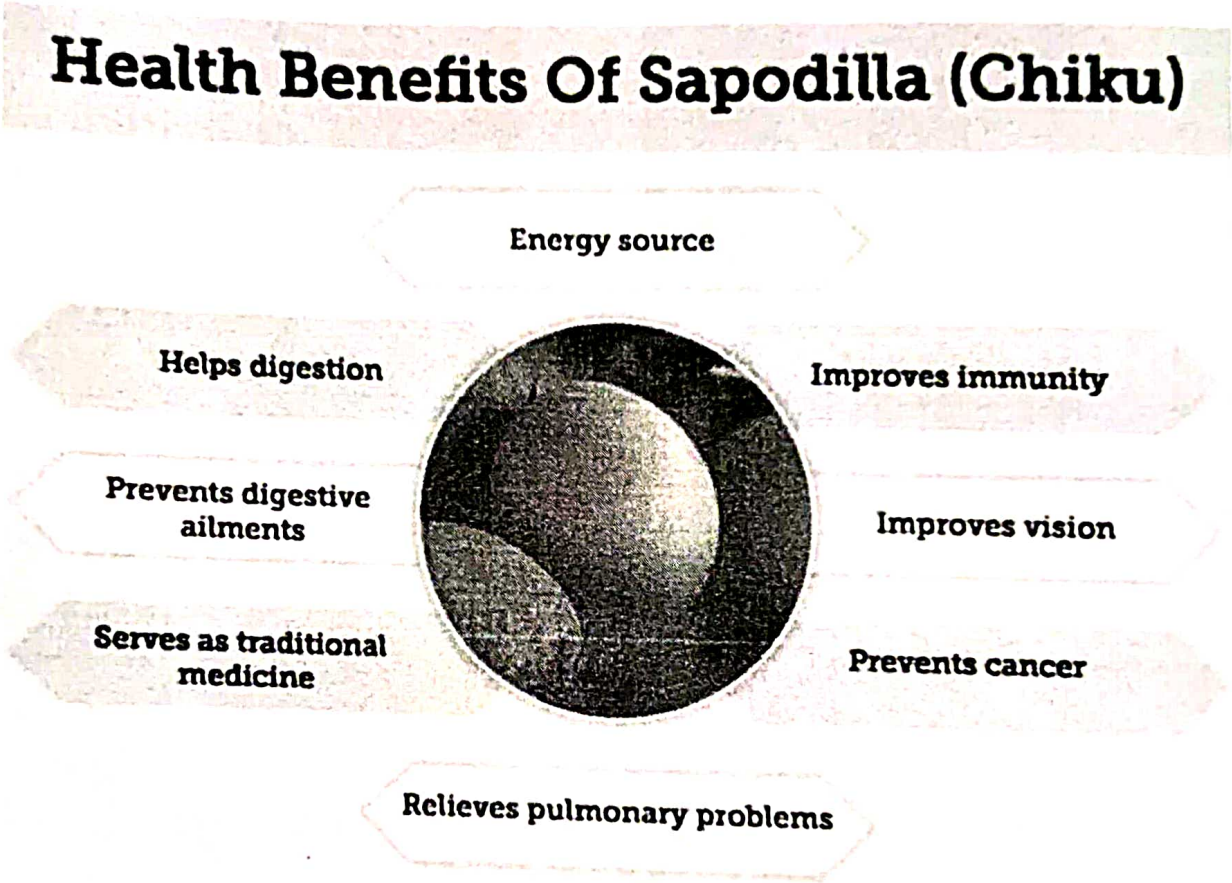
Several different methods are commonly used for grafting plants. These include cleft grafting, inlay grafting, four-flap grafting, and whip grafting.

5: Promote gut health. ...

6: Good for bones. ...

7: Best for mommies-to-be. ...

8: Cancer Benefits.



Propagated method:

- Propagation: The Sapota can be propagated by seeds by grafting or by layering. However, commercially followed method is softwood grafting on rayan seedlings.
- This method has replaced the earlier method called as approach grafting. The Sapato when grafted on rayon has initially slow growth but the tree lasts longer.

Sexual &Asexual methods:

- It is taken place by seed. Propagation by seeds is not advisable because seeding trees are slow growing, take longer time to come into bearing and have lot of variations.
- Generally this method is used to developed new hybrids or varieties in sapota.

Grafting :

Several different methods are commonly used for grafting plants. These include cleft grafting, inlay grafting, four-flap grafting, and whip grafting.

CULTIVATION &VALUE ADDED PRODUCTS OF MILKY MUSHROOM CALOCYBE INDICA

Bsc (Botany) Project Submitted to

KRISHNA UNIVERSITY, MACHILIPATNAM

In partial fulfillment of VI semester cluster Elective –VIII B-3

By

GONTHUPULI DIVYA
Reg no Y193223005

Under the guidance of

Dr. VENKATESH RAMPILLA
M.S.c., PhD

DEPARTMENT OF BOTANY
V.S.R GOVERNMENT DEGREE& P.G COLLEGE
MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

AUGUST – 2022

V.S.R GOVERNMENT DEGREE P.G COLLEGE
MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

DEPARTMENT OF BOTANY

Certificate

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(Dr. R.VENKATAESH)

ProjectSupervisor

Examiner

DEPARTMENT OF BOTANY

V.S.R GOVERNMENT DEGREE& P.G COLLEGE

MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA

DECLARATION

I **GONTHUPULI DIVYA(Y193223005)** declare that the project work entitled**"CULTIVATION & VALUE ADDED PRODUCTS OF MILLKYMUSHROOM*CALOCYBE INDICA*"** is an original work done by me under the supervision of **Dr. Venkatesh Rampilla**in the Department of botany, V.S.R Government Degree& P.G College during the year of 2021-2022. The work is original and has not been submitted in parts or in full, for the award of any other degree.

GONTHUPULI DIVYA

Place:
Date:

CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM CALOCYBE INDICA

Bsc (Botany) Project Submitted to

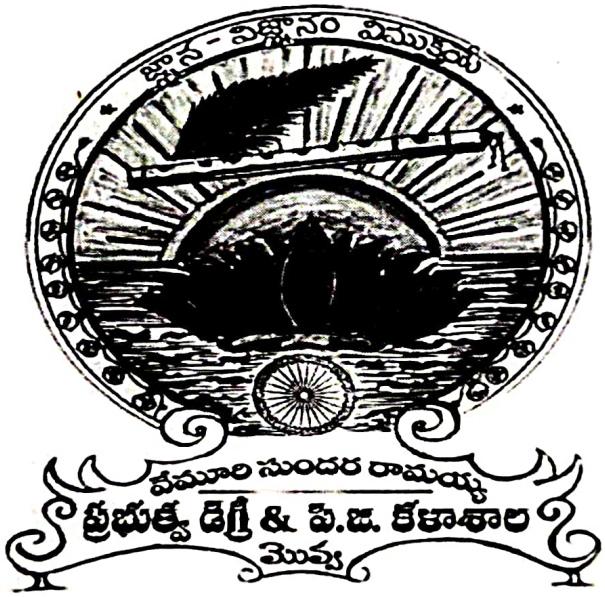
KRISHNA UNIVERSITY, MACHILIPATNAM

In partial fulfillment of VI semester cluster Elective –VIII B-3

By

MOGALIPUVVU PRUDHVI NARAYANA

***Reg. no.* Y193223011**



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(Dr. R.VENKATAESH)

Project Supervisor

Examiner

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MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA

DECLARATION

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MOGALIPUVVU PRUDHVI NARAYANA

Place:
Date:

CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM CALOCYBE INDICA

Bsc (Botany) Project Submitted to

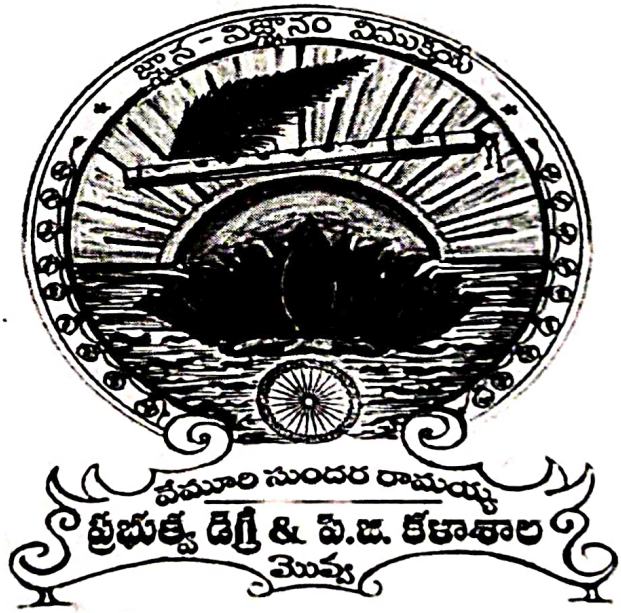
KRISHNA UNIVERSITY, MACHILIPATNAM

In partial fulfillment of VI semester cluster Elective –VIII B-3

By

JANJANAM SAHITHI

Reg. no. Y193223007



Under the guidance of

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AUGUST – 2022

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DEPARTMENT OF BOTANY

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This is to certify that **"CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM *CALOCYBE INDICA*"** is a bonafide record of project work done by **JANJANAM SAHITHI(Y193223007)** in partial fulfillment for the award of **BSc (BTBC)** to Krishna University, Machilipatnam, Krishna, A.P. It is a record of *bona fide* work carried out by him under my guidance and supervision. His work is found to be satisfactory.

(Dr. R.VENKATAESH)

Project Supervisor

K. Sindhu

Examiner

DEPARTMENT OF BOTANY

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MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA

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JANJANAM SAHITHI

Place:
Date:

CULTIVATION &VALUE ADDED PRODUCTS OF MILKY MUSHROOM CALOCYBE INDICA

Bsc (Botany) Project Submitted to

KRISHNA UNIVERSITY, MACHILIPATNAM

In partial fulfillment of VI semester cluster Elective –VIII B-3

By

KUMPATI HAVEELA
Reg no Y193223009

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M.S.c., PhD

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(Dr. R.VENKATAESH)

ProjectSupervisor

k. Sivudu

Examiner

DEPARTMENT OF BOTANY

V.S.R GOVERNMENT DEGREE& P.G COLLEGE

MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA

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KUMPATI HAVEELA

Place:
Date:

CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM CALOCYBE INDICA

Bsc (Botany) Project Submitted to

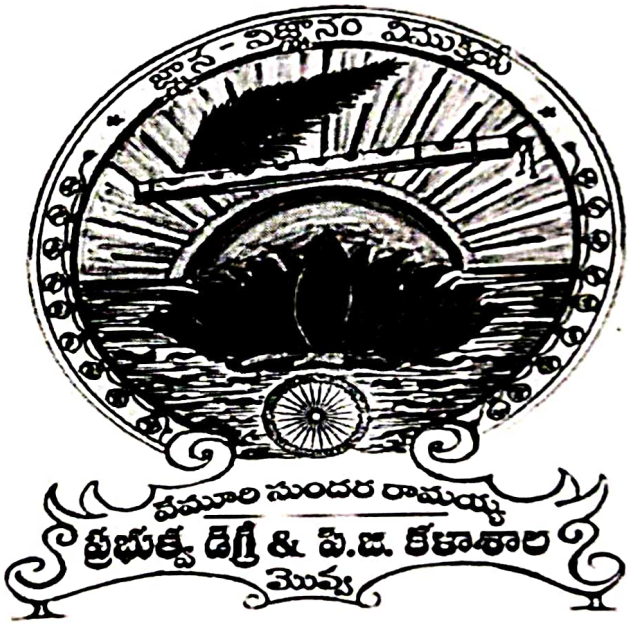
KRISHNA UNIVERSITY, MACHILIPATNAM

In partial fulfillment of VI semester cluster Elective –VIII B-3

By

REVATHI MERUGUMALA

Reg. no. Y193223010



Under the guidance of

Dr. VENKATESH RAMPILLA

M.S.c., PhD

DEPARTMENT OF BOTANY

V.S.R GOVERNMENT DEGREE & P.G COLLEGE

MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

AUGUST – 2022

V.S.R GOVERNMENT DEGREE P.G COLLEGE

MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

DEPARTMENT OF BOTANY

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This is to certify that **"CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM *CALOCYBE INDICA*"** is a bonafide record of project work done by **REVATHI MERUGUMALA(Y193223010)** in partial fulfillment for the award of **BSc (BTBC)** to Krishna University, Machilipatnam, Krishna, A.P. It is a record of *bona fide* work carried out by him under my guidance and supervision. His work is found to be satisfactory.

(Dr. R.VENKATAESH)

Project Supervisor

Examiner

DEPARTMENT OF BOTANY

V.S.R GOVERNMENT DEGREE & P.G COLLEGE

MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA

DECLARATION

I **REVATHI MERUGUMALA (Y193223010)** declare that the project work entitled **"CULTIVATION & VALUE ADDED PRODUCTS OF MILLKY MUSHROOM *CALOCYBE INDICA*"** is an original work done by me under the supervision of **Dr. Venkatesh Rampilla** in the Department of botany, V.S.R Government Degree & P.G College during the year of 2021-2022. The work is original and has not been submitted in parts or in full, for the award of any other degree.

REVATHI MERUGUMALA

Place:
Date:

CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM CALOCYBE INDICA

Bsc (Botany) Project Submitted to

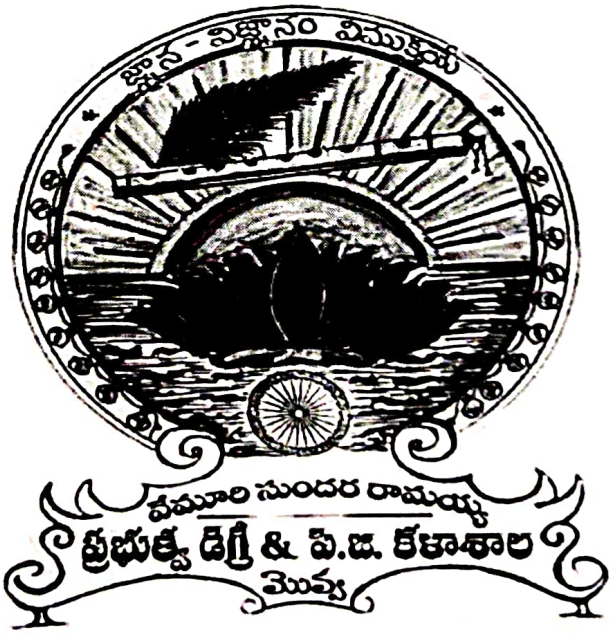
KRISHNA UNIVERSITY, MACHILIPATNAM

In partial fulfillment of VI semester cluster Elective –VIII B-3

By

TANGELLAMUDI MANIKANTA

***Reg. no.* Y193223015**



Under the guidance of

Dr.VENKATESH RAMPILLA

M.S.c., PhD

DEPARTMENT OF BOTANY

V.S.R GOVERNMENT DEGREE & P.G COLLEGE

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MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

DEPARTMENT OF BOTANY

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(Dr. R.VENKATAESH)

Project Supervisor

Examiner

DEPARTMENT OF BOTANY

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MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA

DECLARATION

I **TANGELLAMUDI MANIKANTA (Y193223015)** declare that the project work entitled **"CULTIVATION & VALUE ADDED PRODUCTS OF MILLKY MUSHROOM *CALOCYBE INDICA*"** is an original work done by me under the supervision of **Dr. Venkatesh Rampilla** in the Department of botany, V.S.R Government Degree & P.G College during the year of 2021-2022. The work is original and has not been submitted in parts or in full, for the award of any other degree.

TANGELLAMUDI MANIKANTA

Place:
Date:

CULTIVATION &VALUE ADDED PRODUCTS OF MILKY MUSHROOM CALOCYBE INDICA

Bsc (Botany) Project Submitted to

KRISHNA UNIVERSITY, MACHILIPATNAM

In partial fulfillment of VI semester cluster Elective –VIII B-3

By

GANDRAPU SONIYA
Reg no Y193223004

Under the guidance of

Dr. VENKATESH RAMPILLA
M.S.c., PhD

DEPARTMENT OF BOTANY
V.S.R GOVERNMENT DEGREE& P.G COLLEGE
MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

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MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

DEPARTMENT OF BOTANY

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This is to certify that **"CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM *CALOCYBE INDICA*"** is a bonafide record of project work done by**GANDRAPU SONIYA(Y193223004)** in partial fulfillment for the award of **BSc (BTBC)** to Krishna University, Machilipatnam, Krishna, A.P. It is a record of *bona fide* work carried out by him under my guidance and supervision. His work is found to be satisfactory.

(Dr. R.VENKATAESH)

ProjectSupervisor

Examiner

DEPARTMENT OF BOTANY

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MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA

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I **GANDRAPU SONIYA (Y193223004)** declare that the project work entitled**"CULTIVATION & VALUE ADDED PRODUCTS OF MILLKYMUSHROOM*CALOCYBE INDICA*"** is an original work done by me under the supervision of **Dr. VenkateshRampilla**in the Department of botany, V.S.R Government Degree& P.G College during the year of 2021-2022. The work is original and has not been submitted in parts or in full, for the award of any other degree.

GANDRAPU SONIYA

Place:
Date:

CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM CALOCYBE INDICA

Bsc (Botany) Project Submitted to

KRISHNA UNIVERSITY, MACHILIPATNAM

In partial fulfillment of VI semester cluster Elective –VIII B-3

By

KODALI NAGA PAVANI

Reg. no. Y193223008

Under the guidance of

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M.S.c., PhD

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AUGUST – 2022

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MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

DEPARTMENT OF BOTANY

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This is to certify that **"CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM *CALOCYBE INDICA*"** is a bonafide record of project work done by **KODALI NAGA PAVANI (Y193223008)** in partial fulfillment for the award of **BSc (BTBC)** to Krishna University, Machilipatnam, Krishna, A.P. It is a record of *bona fide* work carried out by him under my guidance and supervision. His work is found to be satisfactory.

(Dr. R.VENKATAESH)

Project Supervisor

Examiner

DEPARTMENT OF BOTANY

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MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA

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KODALI NAGA PAVANI

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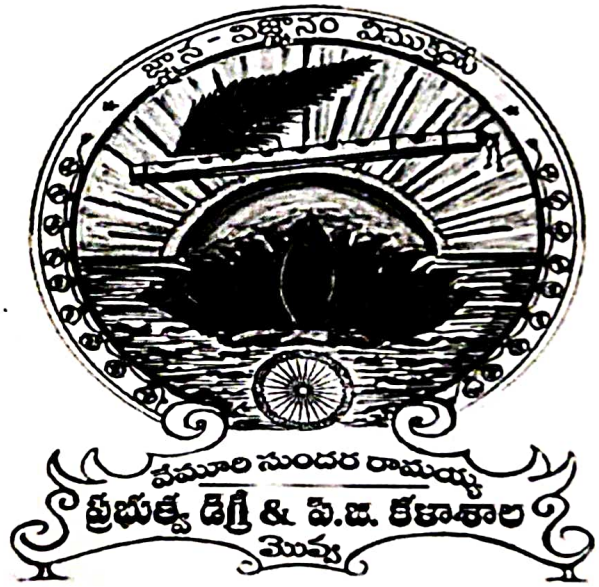
In partial fulfillment of VI semester cluster Elective –VIII B-3

By

M. NAGAANJANA DEVI

Reg. no. **Y193223012**



Under the guidance of

Dr.VENKATESH RAMPILLA

M.S.c., PhD

DEPARTMENT OF BOTANY

V.S.R GOVERNMENT DEGREE & P.G COLLEGE

MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

AUGUST – 2022

V.S.R GOVERNMENT DEGREE P.G COLLEGE

MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA.

DEPARTMENT OF BOTANY

Certificate

This is to certify that **"CULTIVATION & VALUE ADDED PRODUCTS OF MILKY MUSHROOM *CALOCYBE INDICA*"** is a bonafide record of project work done by **NAGA ANJANA DEVI MULLAPUDI (Y193223012)** in partial fulfillment for the award of **BSc (BTBC)** to Krishna University, Machilipatnam, Krishna, A.P. It is a record of *bona fide* work carried out by him under my guidance and supervision. His work is found to be satisfactory.

(Dr. R.VENKATAESH)

Project Supervisor

K. Siva

Examiner

DEPARTMENT OF BOTANY

V.S.R GOVERNMENT DEGREE & P.G COLLEGE

MOVVA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA

DECLARATION

I **NAGA ANJANA DEVI MULLAPUDI (Y193223012)** declare that the project work entitled **"CULTIVATION & VALUE ADDED PRODUCTS OF MILLKY MUSHROOM *CALOCYBE INDICA*"** is an original work done by me under the supervision of **Dr. Venkatesh Rampilla** in the Department of botany, V.S.R Government Degree & P.G College during the year of 2021-2022. The work is original and has not been submitted in parts or in full, for the award of any other degree.

NAGA ANJANA DEVI MULLAPUDI

Place:
Date: