



## CARMEL COLLEGE, MALA

(Nationally Accredited With A Grade)

### CULTIVATION OF RICE (*Oryza sativa*)

A PROJECT SUBMITTED TO CALICUT UNIVERSITY IN PARTIAL FULFILLMENT  
OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR  
OF VOCATIONAL STUDIES

B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021

SUBMITTED BY

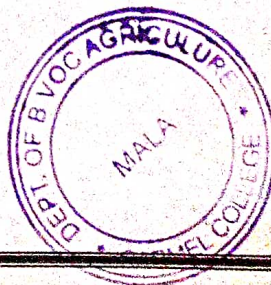
AISWARYA MURALI  
REG NO: CRATBVU001

UNDER THE SUPERVISION OF

**Dr. MANJUSHA RANI**  
ASSISTANT PROFESSOR ON CONTRACT  
B.VOC AGRICULTURE  
CARMEL COLLEGE  
MALA

*Manjusha Rani*  
Dr. MANJUSHA RANI  
HEAD OF THE DEPT

HEAD, DEPT. OF B.VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA



*Manjusha Rani*  
Dr. MANJUSHA RANI  
SUPERVISOR



Date..... 21/4/22

## CERTIFICATE

This is to certify that the project titled "cultivation of rice –*Oryza sativa*" done at Carmel College Mala, under the supervision of Dr. Manjusha Rani, submitted by AISWARYA MURALI (Reg No: CRATBVU001) in partial fulfillment of the requirement of Bachelor of Vocational Studies of Carmel College Mala, affiliated to University of Calicut during 2019 – 2021, is a record of the bonfire work done by her under our supervision and guidance

*Manjusha Rani*

Dr. Manjusha Rani

Head, Dept. Of Vocational Studies

HEAD, DEPT. OF VOC  
AGRICULTURE  
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VOCATIONAL STUDIES

B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021

SUBMITTED BY

AKHILA .P.P  
REG NO: CRATBVU002

UNDER THE SUPERVISION OF

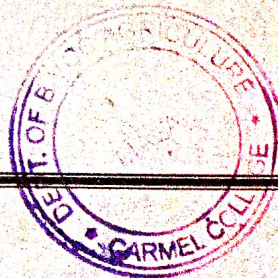
Dr.MANJUSHA RANI  
ASSISTANT PROFESSOR ON CONTRACT  
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MALA

*Manjusha Rani*

Dr.MANJUSHA RANI  
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Dr.MANJUSHA RANI  
SUPERVISOR



HEAD, DEPT. OF B.VOC  
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CARMEL COLLEGE, MALA



## CERTIFICATE

This is to certify that the project titled “**CULTIVATION OF RICE - *Oryza sativa***” submitted by AKHILA P.P (Reg No: CRATBVU002) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2020 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

Dr. Manjusha Rani

Head, Dept. Of Vocational Studies

Date:

Place: Mala

HEAD, DEPT. OF B VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA





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**CULTIVATION OF RICE – *Oryza sativa***

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OF VOCATIONAL STUDIES

**B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021**

**SUBMITTED BY**

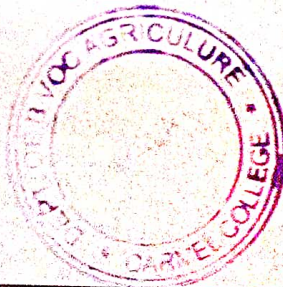
**ANUSREE K.J  
REG NO: CRATBVU003**

**UNDER THE SUPERVISION OF**

**Dr. MANJUSHA RANI  
ASSISTANT PROFESSOR ON CONTRACT  
DEPARTMENT OF AGRICULTURE  
CARMEL COLLEGE  
MALA**

*Manjusha*  
**Dr. MANJUSHA RANI  
HEAD OF THE DEPARTMENT**

**HEAD, DEPT. OF B.VOC  
AGRICULTURE**



*Manjusha*  
**Dr. MANJUSHA RANI  
SUPERVISOR**



## CERTIFICATE

This is to certify that the project titled “CULTIVATION OF RICE - *Oryza sativa*” submitted by ANUSREE.K.J (Reg No: CRATBVU003) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala,affiliated to University of Calicut during 2020– 2021, is a record of the bonfire work done by her under our supervision and guidance.

*Manjusha Rani*

Dr. Manjusha Rani

Head, Dept. Of B.Voc. Agriculture

Date: 14/11/22

Place: Mala

HEAD, DEPT. OF B.VOC.  
AGRICULTURE  
CARMEL COLLEGE, MALA





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**CULTIVATION OF RICE ( Oryza sativa )**

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OF VOCATIONAL STUDIES

**B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021**

**SUBMITTED BY**

**ARSHIYA SIDDIQA KK  
REG NO: CRATBVU004**

**UNDER THE SUPERVISION OF**

**Dr. MANJUSHA RANI  
ASSISTANT PROFESSOR ON CONTRACT  
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MALA**

*Manjusha*  
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CARMEL COLLEGE, MALA**



*Manjusha*  
**Dr. MANJUSHA RANI  
SUPERVISOR**



## CERTIFICATE

This is to certify that the project titled “**CULTIVATION OF Rice (*Oryza sativa*)**” submitted by ARSHIYA SIDDIQA K K (Reg No: CRATBVU004) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2019 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

Dr. Manjusha Rani

Head, Dept. Of B. Voc Agriculture

Date:

Place: Mala

HEAD, DEPT. OF B VOC  
ARGIC  
CARMEL COLLEGE, MALA





## CARMEL COLLEGE, MALA

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OF VOCATIONAL STUDIES

B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021

SUBMITTED BY

DEVIKA SURESH. M  
REG NO: CRATBVU005

UNDER THE SUPERVISION OF

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MALA

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*Manjusha Rani*  
Dr. MANJUSHA RANI  
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HEAD DEPT  
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CARMEL COLLEGE, MALA



Date..... 4/24/22

## CERTIFICATE

This is to certify that the project titled “cultivation of rice –*Oryza sativa*” done at Carmel College Mala, under the supervision of Dr. Manjusha Rani, submitted by DEVIKA SURESH M (Reg No: CRATBVU005) in partial fulfillment of the requirement of Bachelor of Vocational Studies of Carmel College Mala, affiliated to University of Calicut during 2019 – 2021, is a record of the bonfire work done by her under our supervision and guidance

*Manjusha Rani*

Dr. Manjusha Rani

Head, Dept. Of Vocational Studies

HEAD, DEPT. OF B VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA





**CARMEL COLLEGE, MALA**  
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**CULTIVATION OF RICE (*Oryza sativa*)**

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OF VOCATIONAL STUDIES

B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021

SUBMITTED BY

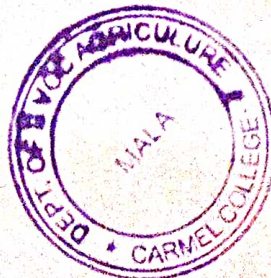
**GOPIKA K.G**  
REG NO: CRATBVU006

UNDER THE SUPERVISION OF

**Dr. MANJUSHA RANI**  
ASSISTANT PROFESSOR ON CONTRACT  
B.VOC AGRICULTURE  
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MALA

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**Dr. MANJUSHA RANI**  
HEAD OF THE DEPT

HEAD, DEPT. OF B VOC  
ARGICULTURE  
CARMEL COLLEGE, MALA




*Manjusha*  
**Dr. MANJUSHA RANI**  
SUPERVISOR



## CERTIFICATE

This is to certify that the project titled “CULTIVATION OF RICE – *Oryza sativa*” submitted by GOPIKA K.G (Reg No: CRATBVU006) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2019 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

  
Dr. Manjusha Rani

Head, Dept. Of B. Voc Agriculture

Date: 4/4/21

Place: Mala

HEAD, DEPT OF B VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA





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OF VOCATIONAL STUDIES

**B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021**

**SUBMITTED BY**

**GOURI KRISHNA A.U  
REG NO: CRATBVU007**

**UNDER THE SUPERVISION OF**

**Dr.MANJUSHA RANI  
ASSISTANT PROFESSOR ON CONTRACT  
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MALA**

*Manjusha P*

**Dr.MANJUSHA RANI  
HEAD OF THE DEPT**



*Manjusha P*

**Dr.MANJUSHA RANI  
SUPERVISOR**

**HEAD, DEPT OF B.VOC  
CARMEL COLLEGE, MALA**



## CERTIFICATE

This is to certify that the project titled “CULTIVATION OF RICE – *Oryza sativa*” submitted by GOURI KRISHNA A.U (Reg No: CRATBVU007) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2020 – 2021, is a record of the bonfire work done by her under our supervision and guidance.



Dr. Manjusha Rani

Head, Dept. Of Agriculture

Date: 21/4/22

Place: Mala

HEAD, DEPT. OF AGRIC.  
CARMEL COLLEGE, MALA





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**CULTIVATION OF RICE – Oryza sativa**

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OF VOCATIONAL STUDIES

**B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021**

**SUBMITTED BY**

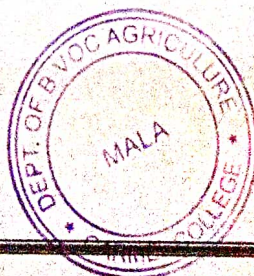
**JOSHNA ANIE. K.S  
REG NO: CRATBVU008**

**UNDER THE SUPERVISION OF**

**Dr. MANJUSHA RANI  
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MALA**

*Manjusha*  
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CARMEL COLLEGE, MALA**



*Manjusha*  
**Dr. MANJUSHA RANI  
SUPERVISOR**



## CERTIFICATE

This is to certify that the project titled “CULTIVATION OF RICE - *Oryza sativa*” submitted by JOSHNA ANIE.K.S (Reg No: CRATBVU008) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala,affiliated to University of Calicut during 2020 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

*Manjusha Rani*

Dr. Manjusha Rani

Head, Dept. Of B.Voc. Agriculture

Date: 4|4|22

Place: Mala

HEAD, DEPT. OF B VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA





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OF VOCATIONAL STUDIES

**B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021**

**SUBMITTED BY**

**KRISHNA K  
REG NO: CRATBVU009**

**UNDER THE SUPERVISION OF**

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CARMEL COLLEGE  
MALA**

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**HEAD, DEPT. OF B.VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA**

*Manjusha Rani*

**Dr. MANJUSHA RANI  
SUPERVISOR**





## CERTIFICATE

This is to certify that the project titled “**CULTIVATION OF RICE – *Oryza sativa***” submitted by KRISHINA K (Reg No: CRATBVU009) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2019 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

  
Dr. Manjusha Rani

Head, Dept. Of B.voc Agriculture

Date: 4/4/22

Place: Mala

HEAD, DEPT. OF B VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA





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**B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021**

**SUBMITTED BY**

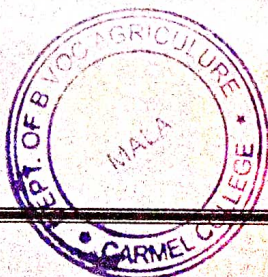
**LAKSHMI PRIYA T.A  
REG NO: CRATBVU010**

**UNDER THE SUPERVISION OF**

**Dr.MANJUSHA RANI  
ASSISTANT PROFESSOR ON CONTRACT  
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CARMEL COLLEGE  
MALA**

*Manjusha Rani*

**Dr.MANJUSHA RANI  
HEAD OF THE DEPT**



*Manjusha Rani*

**Dr.MANJUSHA RANI  
SUPER VISOR**

**ARGICULTURE  
CARMEL COLLEGE, MALA**



## CERTIFICATE

This is to certify that the project titled “**CULTIVATION OF RICE - *Oryza sativa***” submitted by LAKSHMI PRIYA T.A (Reg No: CRATBVU010) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala,affiliated to University of Calicut during 2020 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

Dr. Manjusha Rani

Head, Dept. Of Vocational Studies

Date:

Place: Mala

HEAD, DEPT. OF B.VOC.  
AGRICULTURE  
CARMEL COLLEGE, MALA





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**B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021**

**SUBMITTED BY**

**NANDANA I.B  
REG NO: CRATBVU011**

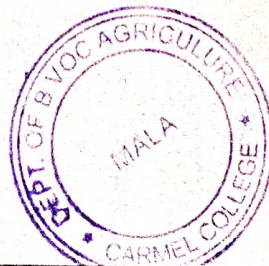
**UNDER THE SUPERVISION OF**

**Dr. MANJUSHA RANI  
ASSISTANT PROFESSOR ON CONTRACT  
DEPARTMENT OF AGRICULTURE  
CARMEL COLLEGE  
MALA**

*Manjusha*  
**Dr. MANJUSHA RANI  
HEAD OF THE DEPARTMENT**

**HEAD, DEPT. OF B.VOC  
AGRICULTURE**

CARMEL COLLEGE, MALA



*Manjusha*  
**Dr. MANJUSHA RANI  
SUPERVISOR**



## CERTIFICATE

This is to certify that the project titled "CULTIVATION OF RICE - *Oryza sativa*" submitted by NANDANA I.B (Reg No: CRATBVU011) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2020 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

*Manjusha B*  
Dr. Manjusha rani

Head of the department

Date:

Place: Mala

HEAD, DEPT. OF BVOC  
AGRICULTURE  
CARMEL COLLEGE, MALA





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**B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021**

**SUBMITTED BY**

**NIVEDITHA T.S  
REG NO: CRATBVU012**

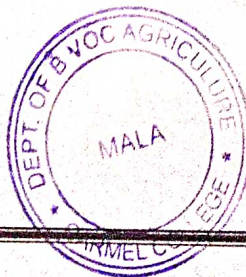
**UNDER THE SUPERVISION OF**

**Dr. MANJUSHA RANI  
ASSISTANT PROFESSOR ON CONTRACT  
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CARMEL COLLEGE  
MALA**

*Manjusha Rani*  
**Dr. MANJUSHA RANI  
HEAD OF THE DEPARTMENT**

*Manjusha Rani*  
**Dr. MANJUSHA RANI  
SUPERVISOR**

HEAD, DEPT. OF B VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA





## CERTIFICATE

This is to certify that the project titled “**CULTIVATION OF RICE - *Oryza sativa***” submitted by NIVEDITHA T.S (Reg No: CRATBVU012) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2020 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

*Manjusha Rani*

Dr. Manjusha rani

Head of the department

Date: 4/4/22

Place: Mala

HEAD, DEPT. OF B VOC  
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**B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021**

**SUBMITTED BY**

**RAKHI K R  
REG NO: CRATBVU014**

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**Dr. MANJUSHA RANI  
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CARMEL COLLEGE  
MALA**

*Manjusha*  
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*Manjusha*  
**Dr. MANJUSHA RANI  
SUPERVISOR**

**HEAD, DEPT. OF B VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA**



## CERTIFICATE

This is to certify that the project titled “**CULTIVATION OF RICE - *Oryza sativa***” submitted by RAKHI. K.R. (Reg No: CRATBVU014) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2020 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

*Manjusha Rani*

Dr. Manjusha Rani

Head, Dept. Of Vocational Studies

Date:

Place: Mala

HEAD, DEPT. OF B.VOC  
AGRICULTURE  
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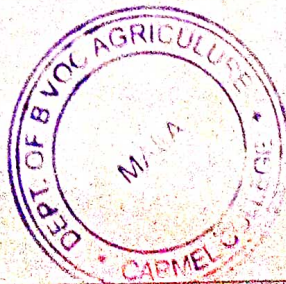
SANDHRA V.S  
REG NO: CRATBVU015

UNDER THE SUPERVISION OF

Dr. MANJUSHA RANI  
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MALA

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AGRICULTURE  
CARMEL COLLEGE, MALA



Dr. MANJUSHA RANI  
SUPERVISOR



## CERTIFICATE

This is to certify that the project titled “*CULTIVATION OF RICE- Oryza sativa*” submitted by SANDHRA V.S (Reg No: CRATBVU015) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2019 – 2021, is a record of the bonfire work done by her under our supervision and guidance.



Dr. Manjusha Rani

Head, Dept. Of B. Voc Agriculture

Date: 20/4/22

Place: Mala

HEAD, DEPT. OF B VOC  
AGRICULTURE  
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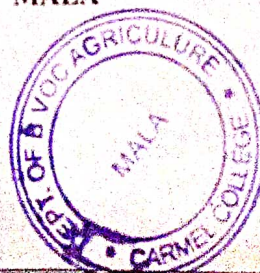
SUBMITTED BY

SIVALAKSHMI M.B  
REG NO: CRATBVU016

UNDER THE SUPERVISION OF

Dr.MANJUSHA RANI  
ASSISTANT PROFESSOR ON CONTRACT  
B.VOC AGRICULTURE  
CARMEL COLLEGE  
MALA

*Manjusha*  
Dr.MANJUSHA RANI  
HEAD OF THE DEPT



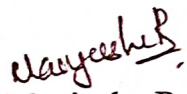
*Manjusha*  
Dr.MANJUSHA RANI  
SUPERVISOR

HEAD, DEPT OF B.VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA



## CERTIFICATE

This is to certify that the project titled “CULTIVATION OF RICE – *Oryza sativa*” submitted by SIVALAKSHMI.M. B (Reg No: CRATBVU016) in partial fulfillment of the requirement of Bachelor of Vocational Studies at Carmel College, Mala, affiliated to University of Calicut during 2020 – 2021, is a record of the bonfire work done by her under our supervision and guidance.

  
Ms. Dr. Manjusha Rani

Head, Dept. Of Agriculture

Date: 21/4/22

Place: Mala

HEAD, DEPT. OF B VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA





# CARMEL COLLEGE, MALA

(Nationally Accredited With A Grade)

## CULTIVATION OF RICE (Oryza sativa)

A PROJECT SUBMITTED TO CALICUT UNIVERSITY IN PARTIAL FULFILLMENT  
OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF BACHELOR  
OF VOCATIONAL STUDIES

B.VOC AGRICULTURE  
FOURTH SEMESTER  
2020-2021

SUBMITTED BY

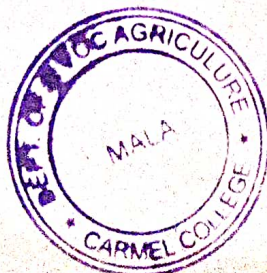
SRADHA KS  
REG NO: CRATBVU018

UNDER THE SUPERVISION OF

Dr. MANJUSHA RANI  
ASSISTANT PROFESSOR ON CONTRACT  
B.VOC AGRICULTURE  
CARMEL COLLEGE  
MALA

Dr. MANJUSHA RANI  
HEAD OF THE DEPT

HEAD, DEPT. OF B VOC  
ARGICULTURE  
CARMEL COLLEGE, MALA



Dr. MANJUSHA RANI  
SUPERVISOR



Date.....4/4/22.....

## CERTIFICATE

This is to certify that the project titled “Cultivation of Rice - *Oryza sativa*” done at Carmel College Mala, under the supervision of Dr. Manjusha Rani, submitted by SRADHA KS (Reg No: CRATBVU018) in partial fulfillment of the requirement of Bachelor of Vocational Studies of Carmel College Mala, affiliated to University of Calicut during 2019 – 2021, is a record of the bonfire work done by her under our supervision and guidance



Dr. Manjusha Rani

Head, Dept. Of Vocational Studies

HEAD, DEPT. OF B VOC  
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**B.VOC AGRICULTURE**  
**FOURTH SEMESTER**  
**2020-2021**

**SUBMITTED BY**

**SUMAYYA T.S**  
**REG NO: CRATBVU019**

**UNDER THE SUPERVISION OF**

**Dr. MANJUSHA RANI**  
**ASSISTANT PROFESSOR ON CONTRACT**  
**DEPARTMENT OF AGRICULTURE**  
**CARMEL COLLEGE**  
**MALA**

*Manjusha*  
**Dr. MANJUSHA RANI**  
**HEAD OF THE DEPARTMENT**

HEAD, DEPT. OF B.VOC  
AGRICULTURE

CARMEL COLLEGE, MALA



*Manjusha*  
**Dr. MANJUSHA RANI**  
**SUPERVISOR**



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Dr. Manjusha rani

Head of the department

Date: 1/1/22

Place: Mala

HEAD, DEPT. OF B VOC  
AGRICULTURE  
CARMEL COLLEGE, MALA





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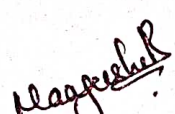
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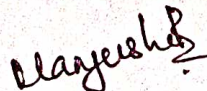
**SUBMITTED BY**

**VISMAYA SOBHANAN  
REG NO: CRATBVU020**

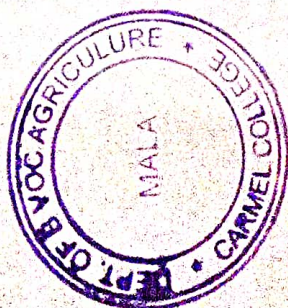
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**Dr. MANJUSHA RANI  
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Dr. Manjusha Rani

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