

6160



# FABRICATION OF BIOMASS BRIQUETTING MACHINE



A PROJECT REPORT

*Submitted by*

ARUN JABEZ A	20111012
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PRASANNA S	20111039
SUBASHINI G	20111051

*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*In*

**AGRICULTURAL ENGINEERING**



**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**

**ANNA UNIVERSITY: CHENNAI 600 025**

Approved by AICTE, New Delhi, Accredited with A Grade by NAAC  
(An Autonomous Institution, Affiliated to Anna University, Chennai)

MAY 2024

**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**

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(An Autonomous Institute, Affiliated to Anna University, Chennai)

**DEPARTMENT OF AGRICULTURAL ENGINEERING**

**BONAFIDE CERTIFICATE**

Certified that this project report “**FABRICATION OF BIOMASS BRIQUETTING MACHINE**” is the Bonafide work of “**SUBASHINI G (20111051), NITHYASHREE D (20111038), PRASANNA S (20111039), ARUN JABEZ A (20111012)**” who carried out the work under my supervision.

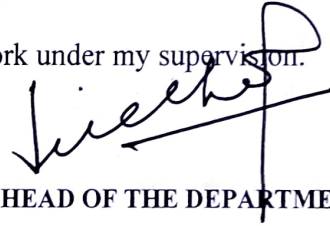


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*24.05.2024*



**Internal Examiner**



**External Examiner**

6159



# EXPERIMENTAL INVESTIGATION OF AGRICULTURAL WASTE COMPOSITE



A PROJECT REPORT

*Submitted by*

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**HINDUSTHAN COLLEGE OF ENGINEERING AND  
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COIMBATORE - 641032

**BONAFIDE CERTIFICATE**

Certified that this project report “**EXPERIMENTAL INVESTIGATION  
OF AGRICULTURAL WASTE COMPOSITE**” is the bonafide work of  
“**AMAL JYOTHI, ASAPH J, SANDHYA S, SHAMEELA P M**” who  
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SUPERVISOR

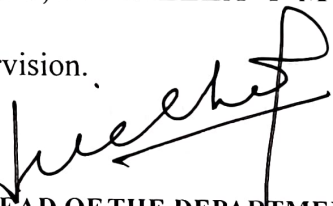
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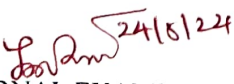
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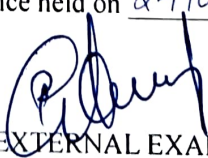
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Submitted for Anna University Examination Project Viva Voice held on 24/05/2024

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

6158



# COCONUT TREE CLIMBING ROBOT WITH PESTICIDE APPLICATIONS



**A PROJECT REPORT**

*Submitted by*

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<b>BHAGATH A</b>	<b>20111015</b>
<b>AKASH RADHAKRISHNAN</b>	<b>20111063</b>

*in partial fulfillment for the award of the degree*

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**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**

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COIMBATORE - 641032

MAY - 2024

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COIMBATORE – 641032

## BONAFIDE CERTIFICATE

Certified that this project report "COCONUT TREE CLIMBLING ROBOT WITH PESTICIDE APPLICATIONS" is the bonafide work "Abdul Hadhi KN (20111001), Aman Sahid (20111007), Bhagath A (20111015), Akash Radhakrishnan (20111063)" who carried out the project work under my supervision.



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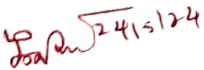
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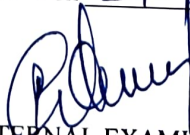
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Submitted for Anna University Examination Project Viva Voice held on 24-5-24



INTERNAL EXAMINER



EXTERNAL EXAMINER

6157



# FABRICATION AND ANALYSIS OF BIO-INSPIRED WEEDER



A PROJECT REPORT

*Submitted by*

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ANAGHA AJI	20111008
ANAKHA RAJ S	20111009
HERMOIN B PRAVEEN	20111024

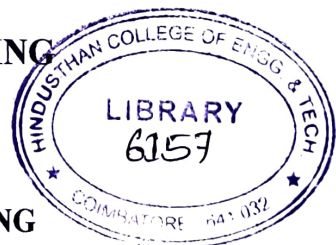
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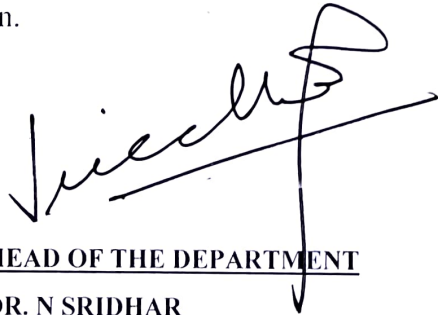
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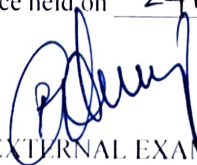
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INTERNAL EXAMINER



EXTERNAL EXAMINER

6156



# DESIGN AND DEVELOPMENT OF FARM ROVER



A PROJECT REPORT

*Submitted by*

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<b>JENNIFER L</b>	<b>20111027</b>

*in partial fulfilment for the award of the degree of*

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*In*

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**NOVEMBER 2023**

# HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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Certified that this project report “DESIGN AND DEVELOPMENT OF FARM ROVER” is the Bonafide work of “ABDULLAH JAZIM N (20111002), ASHIN D (20111014), JENISHA (20111026), and JENNIFER (20111027)” who carried out the work under my supervision.

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Submitted for the project viva-voice Examination of the Anna university conducted on

29/11/23

**Internal Examiner**

**External Examiner**

6162

**STUDY ON INSTALLATION AND EVALUATION OF  
ONLINE DRIP IRRIGATION SYSTEM FOR  
POMEGRANATE CROP**



**A PROJECT REPORT**

*Submitted by*

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<b>GOKUL G</b>	<b>20111019</b>
<b>HARIGOVIND K P</b>	<b>20111021</b>
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**COIMBATORE -641032**

**MAY 2024**

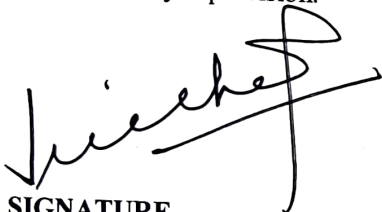


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(An Autonomous Institution, Affiliated to Anna University, Chennai)  
**COIMBATORE -641032**



**BONAFIDE CERTIFICATE**

Certified that this project report "STUDY ON INSTALLATION AND EVALUATION OF ONLINE DRIP IRRIGATION SYSTEM FOR POMEGRANATE CROP" is the Bonafide work of "BHARANIDHARAN S (20111017), GOKUL G(20111019), HARIGOVIND K P (20111021), SRIRAM P (20111049)" who carried out the work under my supervision.

  
SIGNATURE

  
SIGNATURE

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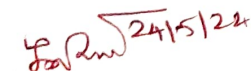
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Submitted for the project viva-voice Examination of the Anna University conducted on

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Internal Examiner

  
External Examiner

6165

**MANIFESTING THE POTENTIAL OF WIND  
ENERGY AT CENTRAL COIMBATORE ZONE  
THROUGH GEOSTATISTICAL ANALYSIS**



**A PROJECT REPORT**

*Submitted by*

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**SEENI RABIDEEN T - 20111042**

**THIREKA K - 20111055**

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**ANNA UNIVERSITY: CHENNAI 600 025**


**MAY 2024**



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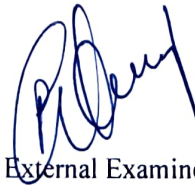
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Submitted for the project viva-voice Examination of the Anna university conducted on

...25.04.2024...

Signature of Internal Examiner  
24/5/24

Internal Examiner



External Examine

6170



# AUTOMATIC ROBOT SPRAYER



## A PROJECT REPORT

*Submitted by*

<b>NIRMAL RAJ E</b>	<b>20111036</b>
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<b>DR</b>	
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**NOVEMBER 2023**

# HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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Submitted for the project viva-voice Examination of the Anna university conducted on 29.11.23...

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**Internal Examiner**

*Handwritten signature and date: 29/11/23*

**External Examiner**

6161



**STUDY ON INSTALLATION AND EVALUATION OF INLINE DRIP  
IRRIGATION SYSTEM FOR BRINJAL CROP**



**PROJECT REPORT**

- Submitted by

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SIVAGANESH MM (Reg No:20111046)  
SUDHEEV M (Reg No:20111052)  
YUVAN SANKAR C (Reg No:20111062)

in partial fulfilment for the award of the degree of

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In  
AGRICULTURE ENGINEERING**

**HINDUSTHAN  
COLLEGE OF ENGINEERING AND TECHNOLOGY**

Approved by AICTE, New Delhi and Accredited with 'A<sup>++</sup>' Grade by NAAC

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COIMBATORE-641032

**MAY 2024**





**HINDUSTHAN**

**COLLEGE OF ENGINEERING AND TECHNOLOGY**

Approved by AICTE, New Delhi and Accredited with 'A++' Grade by NAAC


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COIMBATORE-641032



**BONAFIDE CERTIFICATE**

Certified that this project report "STUDY ON INSTALLATION AND EVALUATION OF INLINE DRIP IRRIGATION SYSTEM FOR BRINJAL CROP" is the bonafide work of ABINESHKUMAR S (Reg No:20111003), SIVAGANESH MM(Reg No:20111046), SUDHEEV M(Reg No:20111052), YUVAN SANKAR C(Reg No:20111062) who carried out the project work under my supervision.

  
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Submitted for Autonomous Project Viva-Voce examination held on 24/05/2024

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

6169



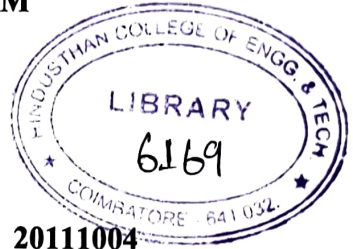
**HINDUSTHAN COLLEGE OF  
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Approved by AICTE, New Delhi, Accredited with 'A++'  
Grade by NAAC (An Autonomous Institution, Affiliated  
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COIMBATORE – 641 032



**FORTIFIED RAGI MILLET ICE CREAM**

*Submitted by*

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<b>MOHAMMED ISHQ</b>	<b>20111032</b>
<b>NAFI</b>	<b>20111034</b>



*In the partial fulfilment of the award of the degree of*

**BACHELOR OF ENGINEERING**

*In*

**AGRICULTURAL**

**ENGINEERING**

**MAY 2024**

## BONAFIDE CERTIFICATE

Certified that this project report "FORTIFIED RAGI ICE CREAM" is the bonafide work of MOHAMMED HISHAM (20111031), NAFI (20111034), ADIL MOHAMMED SAKIR (20111004), MOHAMMED ISHQ (20111032) who carried out the project work under my supervision.



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Submitted for the project VIVA-VOCE Examination of the Anna University  
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24.05.2024



INTERNAL EXAMINER



EXTERNAL EXAMINER



**STUDY ON INSTALLATION AND EVALUATION OF INLINE DRIP  
IRRIGATION SYSTEM FOR TOMATO CROP**



**PROJECT REPORT**

- Submitted by

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NIRMAL RAJ E (Reg No:20111036)

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in partial fulfilment for the award of the degree of

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**MAY 2024**

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**BONAFIDE CERTIFICATE**

Certified that this project report "STUDY ON INSTALLATION AND EVALUATION OF  
INLINE DRIP IRRIGATION SYSTEM FOR TOMATO CROP" is the bonafide work of

**HARIHARAN DHANUSH DR(Reg.no 20111022), KALIDHASAN SB(Reg.no**

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Associate Professor

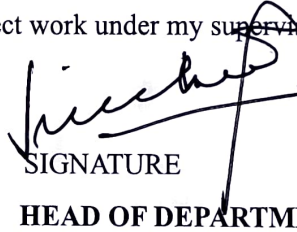
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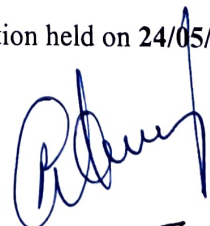
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Coimbatore - 641032

Submitted for Autonomous Project Viva-Voce examination held on 24/05/2024

40  
24/5/24  
INTERNAL EXAMINER



EXTERNAL EXAMINER.

6167



**NON-THERMAL TECHNIQUES TO  
ENHANCE  
THE SHELF LIFE OF NEERA**



**PROJECT REPORT**

*Submitted by*

SOWMIYA S K : Reg No:20111047  
SWETHA B : Reg No:20111053  
THANUSUSHREE P : Reg.No:20111054

*in partial fulfillment for the award of the degree of*

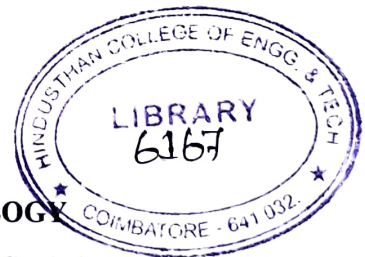
**BACHELOR OF ENGINEERING**

**In**

**AGRICULTURE ENGINEERING**

**HINDUSTHAN**

**COLLEGE OF ENGINEERING AND TECHNOLOGY**



Approved by AICTE, New Delhi and Accredited with 'A++' Grade by NAAC

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COIMBATORE-641032

**MAY 2024**



**HINDUSTHAN**



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COIMBATORE-641032

**BONAFIDE CERTIFICATE**

Certified that this project report “**NON-THERMAL TECHNIQUES TO ENHANCE THE SHELF LIFE OF NEERA**” is the bonafide work of **SOWMIYA S K (Reg No: 20111047)**, **SWETHA B (Reg No: 20111053)**, and **THANUSUSHREE P (Reg.No:20111054)** who carried out the project work under my supervision.

*LP Sridhar 24/5/24*  
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Submitted for Autonomous Project Viva-Voce examination held on 24/5/24

*LP Sridhar 24/5/24*  
**INTERNAL EXAMINER**

*LP Sridhar*  
**EXTERNAL EXAMINER**

6168

**STUDY ON INSTALLATION AND EVALUATION OF  
ONLINE DRIP IRRIGATION SYSTEM FOR  
MANGO CROP**



**A PROJECT REPORT**

*Submitted by*

<b>RAGHUL NARAYANAN S</b>	<b>20111040</b>
<b>SIDDHARTHA B D</b>	<b>20111044</b>
<b>SOWNDHARYA V</b>	<b>20111048</b>
<b>VELMURUGAN M</b>	<b>20111056</b>

*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

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## BONAFIDE CERTIFICATE

Certified that this project report "STUDY ON INSTALLATION AND EVALUATION ONLINE DRIP IRRIGATION SYSTEM FOR MANGO CROP" is the Bonafide work of "RAGHUL NARAYANAN S (20111040), SIDDHARTHA B D (20111044), SOWNDHARYA V (20111048), VELMURUGAN M (20111056)" who carried out the work under my supervision.



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**HEAD OF THE DEPARTMENT**

**Dr. N. SRIDHAR, PhD.**

Associate Professor & Head  
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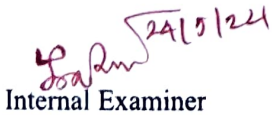
**SUPERVISOR**

**Mrs. K. Ramya, M. Tech**

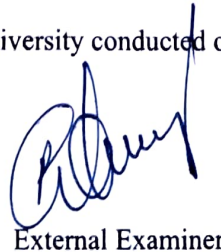
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Submitted for the project viva-voice Examination of the Anna University conducted on

...24...05...2024



Internal Examiner



External Examiner



**STUDY ON  
BEETROOT HARVESTOR PROTOTYPE**



**A PROJECT REPORT**

*Submitted by*

<b>BHARANIDHARAN S</b>	<b>20111016</b>
<b>INDIYAJ M</b>	<b>20111025</b>
<b>VICKRAM M</b>	<b>20111058</b>
<b>SANKARANARAYANAN K</b>	<b>20111801</b>

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of*

**BACHELOR OF ENGINEERING**

*IN*

**AGRICULTURE ENGINEERING**

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**MAY 2024**

6172



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COIMBATORE-641032



## BONAFIDE CERTIFICATE

Certified that this design and installation project report "**PROTO TYPE OF BEETROOT HARVESTER**" is the bonafied work of "BHARANIDHARAN S (20111016), INDIYAJ M (20111025), VIKRAM M (20111058), SANKARANARAYANAN K (20111801), who carried out the design and making project work under my supervision.

  
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Dr.N.Sridhar, M-Tech, Phd.,

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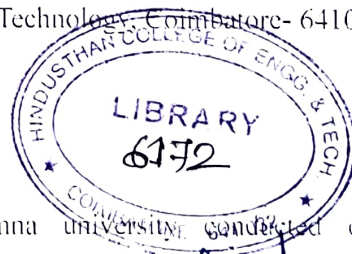
  
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Submitted for the project viva-voice Examination of the Anna University conducted on

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Internal Examiner



External Examiner



**STUDY ON INSTALLATION AND EVALUATION OF INLINE DRIP  
IRRIGATION SYSTEM FOR COTTON CROP**



**PROJECT REPORT**

Submitted by

SIVA BHARATHI C	(Reg No:20111045)
HARIHARAN M	(Reg No:20111023)
VISHWA R	(Reg No:20111061)
NITHISH	(Reg No:20111037)

in partial fulfilment for the award of the degree of

**BACHELOR OF ENGINEERING  
In  
AGRICULTURE ENGINEERING**

**HINDUSTHAN**

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COIMBATORE-641032

**MAY 2024**





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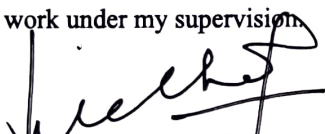
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COIMBATORE-641032

### BONAFIDE CERTIFICATE

Certified that this project report "STUDY ON INSTALLATION AND EVALUATION OF INLINE DRIP IRRIGATION SYSTEM FOR COTTON CROP" is the bonafide work of SIVABHARATHI C (Reg.No:20111045), HARIHARAN M (Reg.No:20111023), VISHWAR (Reg.No:20111061) and NITHISH M (Reg.No:20111037) who carried out the project work under my supervision.

  
SIGNATURE OF THE  
SUPERVISOR

**Dr. N. SRIVIDYA, Ph.D., HoD (i/c)**

ASSOCIATE PROFESSOR

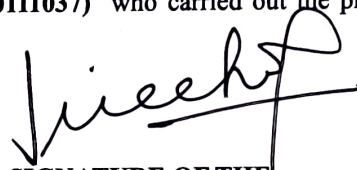
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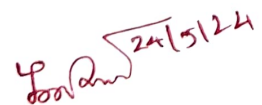
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Coimbatore - 641032

Submitted for Autonomous Project Viva-Voce examination held on 24/05/2024

  
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EXTERNAL EXAMINER

616A



**STUDY ON UV-C LIGHT TREATMENT TO CONTROL  
POSTHARVEST DECAY OF OYSTER MUSHROOMS  
AND THEIR PHYSICO-CHEMICAL PROPERTIES**



**A PROJECT REPORT**

*Submitted by*

<b>GOKULRAM M</b>	<b>20111020</b>
<b>KEERTHANA VARSHINI B</b>	<b>20111029</b>
<b>VIDYA A M</b>	<b>20111059</b>

*in partial fulfilment for the award of the degree*

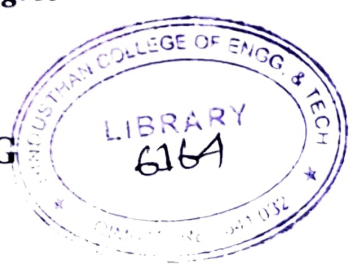
*of*

**BACHELOR OF ENGINEERING**

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**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY,  
COIMBATORE-32**



**MAY 2024**



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COIMBATORE-641032

## BONAFIDE CERTIFICATE

Certified that this project report "STUDY ON UV-C LIGHT TREATMENT TO CONTROL POSTHARVEST DECAY OF OYSTER MUSHROOMS AND THEIR PHYSIO-CHEMICAL PROPERTIES" is the bonafide work of "GOKULRAM M, KEERTHANA VARSHINI B, VIDYA A M" who carried out the project work under my supervision.

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24/05/2024.....

Internal Examiner

External Examiner

6163



**SOLAR POWERED PHOTOVOLTAIC  
DRYER FOR SPICES**



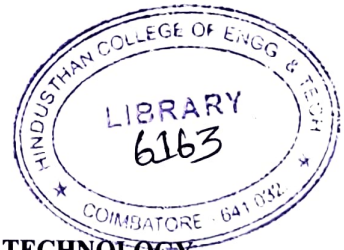
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*Submitted by*

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MOUNISHA K P : Reg.No:20111033  
NNVVSS RAMYA : Reg.No:20111035  
VAISHALI A : Reg.No:20111802

*in partial fulfillment for the award of the degree of*

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### BONAFIDE CERTIFICATE

Certified that this project report "SOLAR POWERED PHOTOVOLTAIC DRYER FOR SPICES" is the bonafide work of DIVYABHARATHI P (Reg No: 20111018), MOUNISHA K P (Reg No: 20111033), NNVVSS RAMYA (Reg.No:20111035) and VAISHALI A (Reg No: 20111802) who carried out the project work under my supervision.

  
SIGNATURE

SUPERVISOR

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Submitted for Autonomous Project Viva-Voce examination held on 24/05/2024

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER