



**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "EVALUATION OF MECHANICAL PROPERTIES OF BANANA, JUTE & GLASS FIBRES WITH EPOXY COMPOSITE" is a bonafide work carried out by

<b>PRANAV VISHWANATH</b>	<b>1KG20ME006</b>
<b>DARSHAN N</b>	<b>1KG21ME402</b>
<b>MALLIKARJUN BUDIHAL</b>	<b>1KG21ME407</b>

in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2023-2024. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Project Work (18MEP83)** prescribed for the degree.

**Internal Guide**

**Head of the Department**

**Principal**

*Dr. Balaji B*  
**Dr. Balaji B**  
Associate Director  
Professor & Head  
Dept. of Mechanical  
Engineering

*Dr. Balaji B*  
**Dr. Balaji B**  
Associate Director  
Professor & Head  
Dept. of Mechanical  
Engineering  
**Professor & Head**

*Dr. K. Rama Narasimha*  
**Dr. K. Rama Narasimha**  
Principal/Director  
KSSEM  
Bangalore-109

**Department Of Mechanical Engineering**  
**K.S. Group Of Institutions**  
**K.S. School Of Engineering & Management**  
**Bangalore-560 109**

**Dr. K. RAMA NARASIMHA**  
Principal/Director  
K S School of Engineering and Management  
Bengaluru - 560 109

**Examiners**

*Dr. Balaji B*  
**Dr. BALAJI B**  
Name and Signature of Examiner-1  
29/5/24

*Dr. Girish R*  
**Dr. GIRISH R**  
Name and Signature of Examiner-2  
29/5/24



**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

*This is to certify that the project work entitled "FABRICATION OF PORTABLE WATER PURIFIER USING RENEWABLE ENERGY" is a Bonafede work carried out by*

PRAJWAL S	1KG21ME412
G JAYANTH	1KG20ME001
NITHIN R	1KG20ME005
NAVEEN KUMAR R	1KG19ME015


*in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work 18MEP83 prescribed for the degree.*

**Guide**

**Head of the Department**

**Principal**

  
**Dr. PN Jyothi**  
Professor  
Dept. of ME


  
**Dr. Balaji B**  
Professor  
Dept. of ME  
28/5/24

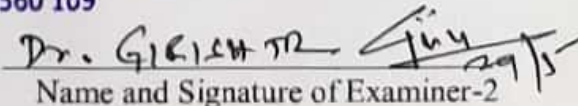
  
**Dr. K. Rama Narasimha**  
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**Examiners**

**Department Of Mechanical Engineering S School of Engineering and Management**  
**K.S. Group Of Institutions**  
**K.S. School Of Engineering & Management**  
**Bangalore-560 109**

**Dr. K. RAMA NARASIMHA**  
Principal/Director  
Bengaluru - 560 109

  
Name and Signature of Examiner-1  
29/5/24

  
Name and Signature of Examiner-2  
29/5/24



**KSSEM**

**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
MECHANICAL ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "**DESIGN AND PROTOTYPE FABRICATION OF VORTEX WIND TURBINE**" is a bonafide work carried out by

<b>RAKESH K</b>	<b>1KG19ME010</b>
<b>VINAY M</b>	<b>1KG20ME003</b>
<b>PRATHWIN B R</b>	<b>1KG20ME007</b>
<b>G PAVAN</b>	<b>1KG21ME411</b>

in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2020- 2021. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Project Work (18MEP83)** prescribed for the degree.

**Guide**

*Abhishek M R*  
**Dr. Abhishek M R**  
Associate Professor  
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**Head of the department**

*Dr. Balaji B*  
**Dr. Balaji B** 28/5/24  
Professor & Head  
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**Examiners**

*Dr. Balaji B*  
**Dr. BALAJI B** 29/5/24  
Name and Signature of Examiner-1

*Dr. Girish M*  
**Dr. GIRISH M** 29/5/24  
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**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
MECHANICAL ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "EXPERIMENTAL INVESTIGATION ON THE MECHANICAL PROPERTIES OF FRICTION STIR WELDED JOINTS OF ALUMINIUM 6061 & ALUMINIUM 5052 ALLOY" is a bonafide work carried out by

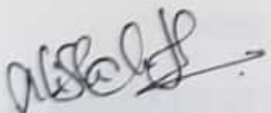
<b>BHARATH KUMAR P</b>	<b>1KG21ME400</b>
<b>MAHENDRA S</b>	<b>1KG21ME406</b>
<b>VITHESH S</b>	<b>1KG21ME413</b>


in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work (18MEP83) prescribed for the degree.

**Guide**

**Head of the Department**

**Principal**

  
**Ms. Nishchitha AH**  
 Assistant Professor  
 Dept. of ME

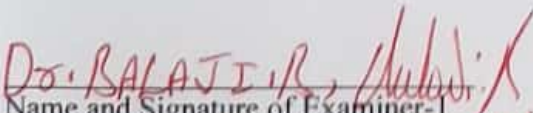
  
**Dr. Balaji B** 28/5/24  
 Professor & Head  
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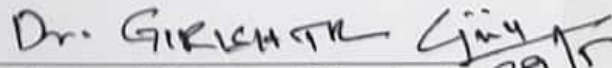
  
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**Examiners**

  
 Name and Signature of Examiner-1  
 29/5/24

  
 Name and Signature of Examiner-2  
 29/5/24



K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "FABRICATION OF MULTI-FUNCTIONAL FARMING EQUIPMENT" is a bonafide work carried out by


JEEVAN R	1KG19ME009
JISHNU L A	1KG20ME002
VISHNU H M	1KG20ME009
MANUKUMAR T R	1KG21ME408

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work 18MEP83 prescribed for the degree.

Guide

Head of the Department

Principal

  
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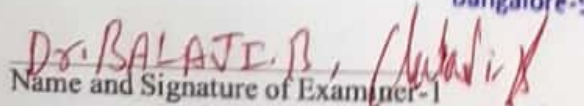
**Professor & Head**

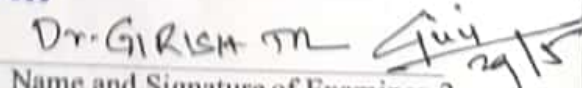
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Examiners Assistant

  
Name and Signature of Examiner-1

  
Name and Signature of Examiner-2



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**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
MECHANICAL ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "DESIGN AND FABRICATION OF MUTLI-ORIENTED SPRAYER ATTACHMENT FOR TRACTOR" is a bonafide work carried out by

<b>RAJSHEKAR REDDY</b>	<b>1KG18ME010</b>
<b>DARSHAN S</b>	<b>1KG21ME403</b>
<b>MOHAMMED SAQUIB</b>	<b>1KG21ME409</b>
<b>MOHAN KRISHNA V</b>	<b>1KG21ME410</b>

in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2023- 2024 It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Project Work (18MEP83)** prescribed for the degree.

**Guide**

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*Dr. Girish* 29/5  
Name and Signature of Examiner-2





**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
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**CERTIFICATE**

This is to certify that the project work entitled **DESIGN AND FABRICATION OF ANDROID CONTROLLED GRASS CUTTER AND WEEDICIDE SPRAYING MACHINE** is a bonafide work carried out by

<b>SHREE HARI G</b>	<b>1KG20ME008</b>
<b>CHANDRAKANTH S</b>	<b>1KG21ME401</b>
<b>HARSHA L</b>	<b>1KG21ME404</b>

in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2023-2024. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project work **18MEP83** prescribed for the degree.

**Guide**

*Parashuram A K*  
**Mr. PARASHURAM A K**  
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**Examiners**

*Balaji B*  
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**Dr. GIRISH TR**  
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