

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JnanaSangama, Belagavi – 590018



A Project Report on

**“FABRICATION OF SMART IRRIGATION SYSTEM
USING IOT”**

Carried out by

**JASHWANTH S
SHREYAS B
SUJAY ADITHYA
THEJAS V R**

**1KS19ME013
1KS19ME030
1KS19ME033
1KS19ME035**

Submitted in partial fulfillment for the award of
**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Under the Guidance Of

Dr. Girish T R

Associate Professor

Department of Mechanical Engineering.



KSIT
K. S. INSTITUTE OF TECHNOLOGY

**DEPARTMENT OF MECHANICAL ENGINEERING
K S INSTITUTE OF TECHNOLOGY**

Bengaluru – 560109

2022-23

K S INSTITUTE OF TECHNOLOGY

Bengaluru - 560109

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled "FABRICATION OF SMART IRRIGATION SYSTEM USING IOT " is a bonafide work carried out by

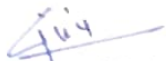
Name

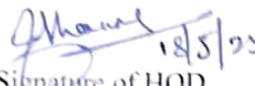
JASHWANTH S
SHREYAS B
SUJAY ADITHYA
THEJAS V R


USN

1KS19ME013
1KS19ME030
1KS19ME033
1KS19ME035

In partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** from **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.


Signature of Guide
(Dr. Girish T R)


Signature of HOD
(Dr. Umashankar M)
Head of the Department
Dept. of Mechanical Engg.
K.S. Institute of Technology
Bengaluru - 560 109.

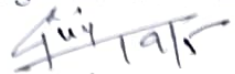
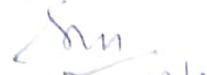

Signature of Principal/Director
(Dr. Dilip Kumar)

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.
EXTERNAL VIVA

Name of Examiners

1 Dr. GIRISHA T R
2 Dr. Sanjay Kumar S. M.

Signature with Date



19/5/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JnanaSangama, Belagavi – 590018



A Project Report on

“ELECTROPLATING OF DISC ROTOR WITH COPPER”

Carried out by

NIHAL M L

ABHISHEK MANIKUMAR

RAMACHANDRA S

ROJA G NAIK

1KS19ME019

1KS18ME001

1KS19ME028

1KS18ME057

Submitted in partial fulfillment for the award of
BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING

Under the Guidance Of
Mr.NAGABHUSHANA M

Associate Professor

Department of Mechanical Engineering.



KSIT
K S INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING
K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

2022-23

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled “**ELECTROPLATING OF DISC ROTOR WITH COPPER**” is a bonafide work carried out by

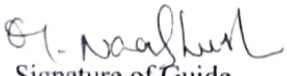
Name

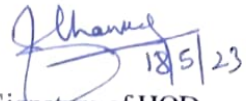
**NIHAL M L
ABHISHEK MANIKUMAR
RAMACHANDRA S
ROJA G NAIK**

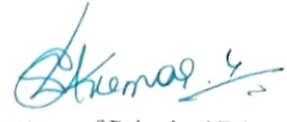
USN

**1KS19ME019
1KS18ME001
1KS19ME028
1KS18ME057**

In partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** from **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.


Signature of Guide
(Mr. Nagabhushana M)

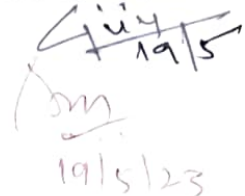

Signature of HOD
Head of the Department
Dept. of Mechanical Engg.
Dr. M Umashankar
K.S. Institute of Technology
Bengaluru - 560 109.
EXTERNAL VIVA


Signature of Principal/Director
(Dr. Dilip Kumar K)
PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.

Name of Examiners

1. Dr. GIRISH TR
2. Dr. Sanyal Kumar S. M.

Signature with Date


19/5/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANASANGAMA, BELAGAVI - 590 018



A Project Report on

“DESIGN AND FABRICATION OF SOLAR DRYER FOR ONION”

Carried out by

HEMANTH .K
JITHAN .A
MADHU .V
NITHESH .S.R

1KS19ME011
1KS19ME016
1KS19ME017
1KS19ME020

Submitted in partial fulfillment for the award of

BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING

Under the Guidance Of

Dr. Nirmala .L

Associate Professor

Department of Mechanical Engineering



KSIT
K S INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING
K S INSTITUTE OF TECHNOLOGY

2022-23

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

DEPARTMENT OF MECHANICAL ENGINEERING



KSIT
K.S. INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project work entitled “DESIGN AND FABRICATION OF SOLAR DRYER FOR ONION” is a bonafide work carried out by

Name:

HEMANTH .K
JITHAN .A
MADHU .V
NITESH .S.R

USN:

1KS19ME011
1KS19ME016
1KS19ME017
1KS19ME020

In partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** from **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.

Nirma
18/5/23
Signature of Guide
Dr. Nirmala .L

Jithan
18/5/23
Signature of HOD
Dr. H.M. Umashankar
Head of the Department
Dept. of Mechanical Engineering
K.S. Institute of Technology
Bengaluru - 560 109
EXTERNAL VIVA

Dilip Kumar K
Signature of Principal & Director
Dr. Dilip Kumar K

Name of Examiners

1. Dr. Girish P.
2. Dr. Sanjay Kumar S.M.

Signature with Date

Girish P
19/5/23
Sanjay Kumar S.M.
19/5/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JnanaSangama, Belagavi 590018



A Project Report on

**“FABRICATION OF AN AUTOMATED PESTICIDE
SPRAYER USING BLUETOOTH”**

Carried out by

**ACHINTYA S SAROVAR
AJITH KUMAR R
MANU KUMAR D K
ROHITH S**

**1KS19ME001
1KS19ME003
1KS19ME018
1KS18ME056**

Submitted in partial fulfilment for the award of
**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Under the Guidance Of
Mr. Prasad K
Associate Professor
Department of Mechanical Engineering.



KSIT
K S INSTITUTE OF TECHNOLOGY

**DEPARTMENT OF MECHANICAL ENGINEERING
K S INSTITUTE OF TECHNOLOGY**

Bengaluru – 560109

2022-23

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled “**FABRICATION OF AN AUTOMATED PESTICIDE SPRAYER USING BLUETOOTH**” is a bonafide work carried out by

Name

USN

ACHINTYA S SAROVAR

1KS19ME001

AJITH KUMAR R

1KS19ME003

MANU KUMAR D K

1KS19ME018

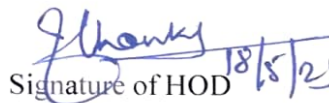
ROHITH S

1KS18ME056

In partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** from **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.


Signature of Guide

(Mr. Prasad K)


Signature of HOD 18/5/23

(Dr. Umashankar M)
Head of the Department
Dept. of Mechanical Engg
K.S. Institute of Technology
Bengaluru - 560109
EXTERNAL VIVA



Signature of Principal/Director

(Dr. Dilip Kumar K)
PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.


Name of Examiners

Signature with Date

1. Dr. Sanjay Kumar, S. M.


19/5/23

2. Dr. GIRISH TR


19/5

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belagavi – 590018



A Project Report on

“PNEUMATIC FOUR AXIS MATERIAL HANDLING ROBOT”

Carried out by

PRASANNA KUMAR S G
PRATHAP REDDY T M
R DEEPAK A RAO
RAKSHITH NAGESH

1KS19ME022
1KS19ME023
1KS19ME024
1KS19ME027

Submitted in partial fulfillment for the award of
BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Under the Guidance Of
Dr. SALEEM KHAN
Assistant Professor Department of
Mechanical Engineering.



DEPARTMENT OF MECHANICAL ENGINEERING
K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

2022-23

K S INSTITUTE OF TECHNOLOGY
Bengaluru – 560109
DEPARTMENT OF MECHANICAL ENGINEERING



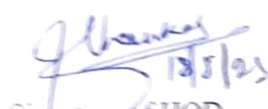
CERTIFICATE


This is to certify that the project work entitled “PNEUMATIC FOUR AXIS MATERIAL HANDLING ROBOT” is a bonafide work carried out by

<u>Name</u>	<u>USN</u>
PRASANNA KUMAR S G	1KS19ME022
PRATHAP REDDY T M	1KS19ME023
R DEEPAK A RAO	1KS19ME024
RAKSHITH NAGESH	1KS19ME027

In partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** from **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.


Signature of Guide
(Dr. Saleem Khan)


Signature of HOD
(Dr. Umashankar M.)

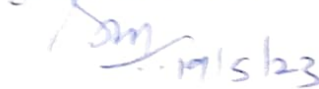


Signature of Principal/Director
(Dr. Dilip Kumar K.)

EXTERNAL VIVA

Name of Examiners

1. Dr. Sampath Kumar S.M.
2. Dr. GIRISH T

Signature with Date


19/5/23

19/5/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590018



A Project Report on

**EXPERIMENTAL STUDIES ON OSCILLATING HEAT PIPES USING
CONVENTIONAL AND NANO-FLUIDS**

Carried out by

R MANOJ REDDY

1KS19ME025

RAHUL R

1KS19ME026

SRI KRISHNA SANTOSH K

1KS19ME032

SYED ASMA ASHEER

1KS19ME034

Submitted in partial fulfillment for the award of
**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Under the Guidance Of

Mr. Parashuram A K

Assistant Professor

Department of Mechanical Engineering.



KSIT
K. S. INSTITUTE OF TECHNOLOGY

**DEPARTMENT OF MECHANICAL ENGINEERING
K S INSTITUTE OF TECHNOLOGY**

Bengaluru – 560109

2022-23

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

DEPARTMENT OF MECHANICAL ENGINEERING



KSIT
K.S. Institute of Technology

CERTIFICATE

This is to certify that the project work entitled “EXPERIMENTAL STUDIES ON OSCILLATING HEAT PIPES USING CONVENTIONAL AND NANO-FLUIDS” is a bonafide work carried out by

Name

USN

R MANOJ REDDY

1KS19ME025

RAHUL R

1KS19ME026

SRI KRISHNA SANTOSH K

1KS19ME032

SYED ASMA ASHEER

1KS19ME034

In partial fulfillment for the award of **Bachelor of Engineering** in **Mechanical Engineering** from **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.

Parashuram A K
Signature of Guide

(Mr. Parashuram A K)

Dr. Umashankar M
Signature of HOD

(Dr. Umashankar M)
Head of Department
Dept. of Mechanical Engg
K.S. Institute of Technology
Bengaluru - 560 109.

Dr. Dilip Kumar K
Signature of Principal/Director

(Dr. Dilip Kumar K)
PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.

EXTERNAL VIVA

Name of Examiners

1. Dr. Sanjay Kumar S.M.
2. Dr. Gurishw TR

Signature with Date

Smy
19/5/23
Guy
19/5

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JnanaSangama, Belagavi – 590018



A Project Report on

**“IDENTIFICATION AND SEGREGATION OF OBJECTS
USING IMAGE PROCESSING”**

Carried out by

ANUSH S

ATIF M SHAIK

KARTHIK G S

PRAJWAL NIKAM

1KS18ME008

1KS18ME010

1KS18ME024

1KS18ME048

Submitted in partial fulfillment for the award of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Under the Guidance Of

Mr. Manjunath B R

Associate Professor

Department of Mechanical Engineering.



KSIT
K. S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

2022-23

K S INSTITUTE OF TECHNOLOGY

Bengaluru - 560109

DEPARTMENT OF MECHANICAL ENGINEERING



KSIT

CERTIFICATE

This is to certify that the project work entitled "**IDENTIFICATION AND SEGREGATION OF OBJECTS USING IMAGE PROCESSING**" is a bonafide work carried out by

Name

ANUSH S
ATIF M SHAIK
KARTHIK G S
PRAJWAL NIKAM

USN

1KS18ME008
1KS18ME010
1KS18ME024
1KS18ME048

In partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering from Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all the corrections suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.



Signature of Guide
(Mr. Manjunath B R)



Signature of HOD
(Dr. Umashankar M)



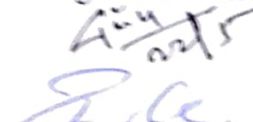
Signature of Principal/Director
(Dr. Dilip Kumar)

EXTERNAL VIVA

Name of Examiners

1. Dr. G. A. S. M.
2. Dr. RAJESH K. S. R.

Signature with Date


22/05/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JnanaSangama, Belagavi – 590018



A Project Report on

**“DESIGN AND CONSTRUCTION OF AN INTEGRATED
DOMESTIC ORGANIC WASTE COMPOSTING DEVICE”**

Carried out by

ARUN KUMAR M

CHARITHA S

SANJAY V

VENKATARAMANA G BHAT

1KS19ME004

1KS19ME008

1KS19ME029

1KS19ME039

Submitted in partial fulfillment for the award of
BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING

Under the Guidance Of

Mr . Ranganath N

Assistant Professor

Department of Mechanical Engineering.



KSIT
K.S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING
K.S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

2022-23

K.S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

DEPARTMENT OF MECHANICAL ENGINEERING

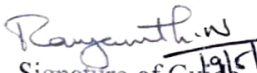


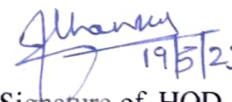
CERTIFICATE


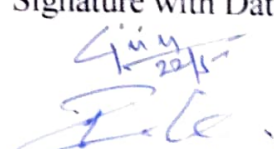
This is to certify that the project work entitled “**DESIGN AND CONSTRUCTION OF AN INTEGRATED DOMESTIC ORGANIC WASTE COMPOSTING DEVICE** ” is a bonafide work carried out by

<u>Name</u>	<u>USN</u>
ARUN KUMAR M	1KS19ME004
CHARITHA .S	1KS19ME008
SANJAY V	1KS19ME029
VENKATARAMANA G BHAT	1KS19ME039

In partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** from **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.


Signature of Guide
(Mr. Ranganath N)


Signature of HOD
(Dr. Umashankar M)
Head of the Department
Dept. of Mechanical Engg
K.S. Institute of Technology
Bengaluru - 560 109
EXTERNAL VIVA


Signature of Principal/Director
(Dr. Dilip Kumar K)
PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.
Signature with Date

22/05/23.

Name of Examiners

1. Dr. GIRISH M
2. Dr. RAJAGOPALAKRISHNAN K.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JnanaSangama, Belagavi – 590018



A Project Report on

**“GENERATION OF ELECTRICAL ENERGY USING
NEODYMIUM MAGNETS IN DOUBLE CYLINDER
ACTUATION.”**

Carried out by

ADVAIT SIDDANTH K V
BHAVAN KASHYAP K
TILAK P
VAISHNAV H

1KS19ME002
1KS19ME005
1KS19ME036
1KS19ME037

Submitted in partial fulfillment for the award of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Under the Guidance Of

Mr . Anil Kumar A

Assistant Professor

Department of Mechanical Engineering.



KSIT
K S INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

2022-23

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled “**GENERATION OF ELECTRICAL ENERGY USING NEODYMIUM MAGNETS IN DOUBLE CYLINDER ACTUATION**” is a bonafide work carried out by


Name

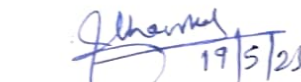
USN


ADVAIT SIDDANTH K V
BHAVAN KASHYAP K
TILAK P
VAISHNAV H

1KS19ME002
1KS19ME005
1KS19ME036
1KS19ME037

In partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** from **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.


Signature of Guide
(Mr. Anil Kumar A)


Signature of HOD
(Dr. Umashankar M)




Signature of Principal/Director
(Dr. Dilip Kumar K)

EXTERNAL VIVA

Name of Examiners

1. Dr. Girish M
2. Dr. Ravihavanth K.

Signature with Date



22/05/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belagavi – 590018



A Project Report on

**“CHARACTERIZATION OF BRIQUETTE FUEL PREPARED
FROM CORN COB”**

Carried out by

**DHANUSH GOWDA M
JAYANTH T K
PRAJWAL KUMAR R
JEEVAN B S**

**1KS19ME010
1KS19ME014
1KS19ME021
1KS19ME015**

Submitted in partial fulfillment for the award of
**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Under the Guidance Of
Dr. NAGAPRASAD K S
Associate Professor

Department of Mechanical Engineering.



KSIT
K. S. INSTITUTE OF TECHNOLOGY

**DEPARTMENT OF MECHANICAL ENGINEERING
K S INSTITUTE OF TECHNOLOGY**

Bengaluru – 560109

2022-23

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

DEPARTMENT OF MECHANICAL ENGINEERING



KSIT
K. S. INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project work entitled “**CHARACTERIZATION OF BRIQUETTE FUEL PREPARED FROM CORN COB**” is a bonafide work carried out by

Name

DHANUSH GOWDA M
JAYANTH T K
PRAJWAL KUMAR R
JEEVAN B S

USN

1KS19ME010
1KS19ME014
1KS19ME021
1KS19ME015

In partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** from **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.

Signature of Guide
(Dr. NAGAPRASAD K S)
Associate professor
Dept. of Mechanical Engg.
KSIT, Bengaluru-109

Signature of HOD
(Dr. Uma Shankar M)
Professor and Head
Dept. of Mechanical Engg.
KSIT, Bengaluru-109

Signature of Principal/Director
(Dr. DILIP KUMAR K)
Principal/Director
KSIT, Bengaluru-109

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.

EXTERNAL VIVA

Name of Examiners

1. **Dr. GIRISH M**
2. **Dr. RAJANUVEENDRA - H.**

Signature with Date

22/05/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JnanaSangama, Belagavi – 590018



A Project Report on

**“FABRICATION OF SMART DUSTBIN WITH CRUSHER
MACHINE”**

Carried out by

DARSHAN. N

1KS19ME009

ZAFFAR ABDULLAH SHEIKH

1KS19ME040

Submitted in partial fulfilment for the award of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Under the Guidance Of

Mr. Harish U

Asst. Professor

Department of Mechanical Engineering.



KSIT
K. S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

2022-23

K S INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

DEPARTMENT OF MECHANICAL ENGINEERING



KSIT
K.S. INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project work entitled “**FABRICATION OF SMART DUSTBIN WITH CRUSHER MACHINE**” is a bonafide work carried out by

Name

USN

DARSHAN. N

1KS19ME009

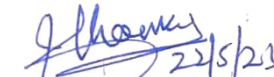
ZAFFAR ABDULLAH SHEIKH

1KS19ME040

In partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** from **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department. The project has been approved as it satisfies the academic requirements.


Signature of Guide

Mr. Harish U


Signature of HOD

(Dr. M Umashankar)


Signature of Principal/Director

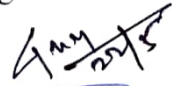
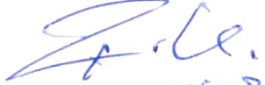
(Dr. Dilip Kumar K)

EXTERNAL VIVA

Name of Examiners

Signature with Date

1. Dr. GIRISH M
2. Dr. RAJHA VENDRA P.



22/05/23