

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Jawaharlal Nehru technological university

Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "Portable Spot Welding Machine"

Submitted By

K.V.V.A.SRAVAN KUMAR	14P35A0303
S.S.BALAKRISHNA REDDY	13P31A0347
RASAGYAPRADHAN	13P31A0343
A.GOWRI SHANKAR	13P31A0301
V.B.S.SAIKIRAN	13P31A0357

In partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2013-2017. The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma

  
PROJECT GUIDE

Mr. J. Papa Rao (M.TECH)  
Asst. professor  
Dept. Of Mechanical Engineering  
Aditya College Of Engineering &  
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HEAD OF THE DEPARTMENT

Mr. D. Deepu M.Tech  
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EXTERNAL EXAMINER

  
PRINCIPAL  
Aditya College of  
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SURAMPALAM - 533 437

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, NAAC and Affiliated to Jawaharlal Nehru Technological  
University, Kakinada-533003

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that project work entitled "CAR TILTING EQUIPMENT" is a bonafide work carried out by P V K CHAITANYA (13P31A0398), CH SAIBABU (13P31A0369), D CHANDRASHEKAR (13P31A0372), P VINAY (13P31A0376), T DURGARAO (13P31A03B1), in the partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** to the Jawaharlal Nehru Technological University, Kakinada during the academic year 2013-2017.

The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

#### PROJECT SUPERVISOR

Ms M.S. PRAVALLIKA, M.Tech.

Assistant Professor

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#### HEAD OF THE DEPARTMENT

Mr. D. DEEPU, M.Tech.

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# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, NAAC and Affiliated to Jawaharlal Nehru Technological University,  
Kakinada-533003

DEPARTMENT OF MECHANICAL ENGINEERING



## CERTIFICATE

is to certify that the project report entitled "DESIGN AND FABRICATION  
MULTI PURPOSE MACHINE"

Submitted by

R.CHAITANYA KUMAR	14P35A0320
J.M.SAI VISWANATHAM	13P31A0379
B.SURYA PHANI	13P31A0365
V.DURGA PRASANTH	13P31A03B6
SOMNATH KAR	13P31A03A6

Submitted in partial fulfilment of requirement for the award of Bachelor of Technology  
degree in Mechanical Engineering, during the academic year 2013-2017. The Result embodied in this  
project report have not been submitted to any other institute or university for the award of any degree or  
honors

  
PROJECT GUIDE

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**ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY**

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL  
UNIVERSITY Kakinada, Approved by AICTE, NAAC)

Surampalem, East Godavari District – 533437

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is certified that the project work entitled **AUTOROLL PUNCHING  
MACHINE USING GENEVA MECHANISM** being submitted by

A.ATCHYUTA RAJENDRA PRASAD	13P31A0362
P. NUTHAN RAJU	13P31A03A2
S. NETAJI	14P35A0322
I. SAIKIRAN	13P31A0378
A. KRISHNA KUMAR	13P31A0361

In a partial fulfillment of the requirements for award of the Bachelor of  
Technology Degree in Mechanical Engineering for the academic year 2013-2017.

**HEAD OF THE DEPARTMENT**

  
**Mr. D. DEEPU**, M.Tech

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# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, NAAC and Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled

**-DESIGN AND FABRICATION OF WIRE EXTRUSION MACHINE"**

Submitted by

**B.SIVAJI**

**13P31A0367**

**S.VAMSI KRISHNA**

**13P31A03A7**

**G.SATYA SAI KUMAR**

**14P35A0316**

**P.DURGA PRASAD**

**14P35A0319**

**J.SAI SUMANTH**

**13P31A0380**

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017.

The Result embodied in this project report has not been submitted to any other institute or university for the award of any degree or diploma.

  
**PROJECT GUIDE**

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# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Jawaharlal Nehru technological university, Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "ABRASIVE JET MACHINE" is being submitted in partial fulfilment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017.

The Results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

Submitted by

A.D.S.S.D.KAMESH	13P31A0363
MANAND BABU	13P31A0385
V.V.V.PHANINDRANADH	13P31A03B5
G.KRANTHI KUMAR	13P31A0374
PRAB IR BAIDYA	13P31A0397

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# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, Affiliated to JNTUK, Accredited by NAAC)

Recognized by UGC under section 2(f) of UGC Act 1956

Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "FABRICATION OF THERMOELECTRIC REFRIGERATOR"

Submitted by

PANKAJ KUMAR	13P31A0393
O. H. V. V. SATYANARAYANA	13P31A0392
DEVALANKA LAKSHMI SAI	14P35A0325
S. V. V. D. PRASAD	13P31A03A3
P. VIJAY KUMAR	13P31A0394

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017

The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma

PROJECT GUIDE

**Mr. H. SURESH BABU RAO**

Assoc. Professor

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# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Jawaharlal Nehru Technological University, Kakinada

Kakinada-533003

2013-17

DEPARTMENT OF MECHANICAL ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled "FABRICATION OF 3D PRINTER",  
is being submitted by

SUMAN DEBNATH	13P31A03A9
M.S.K.DURGA PRASAD	13P31A0386
TALHA NESHAT	13P31A03B0
SANJEEVAN SARMA	13P31A03A4
M.DURGA MANIKANTA	13P31A0388

submitted in partial fulfilment of the requirements for the award of Bachelor of  
Technology degree in Mechanical Engineering, during the academic year 2013-2017.

The results embodied in this project report have not been submitted to any other  
institute or university for the award of any degree or diploma.

PROJECT GUIDE

Mr. N.V.V. NAGESWARA RAO

Assistant Professor

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# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, NAAC, Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Recognized by UGC under section 2(f) of UGC Act 1956

Kakinada-533004, 2013-2017.

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled

**“EXPERIMENTAL EFFECT ON AA 6063 USING FRICTION  
STIR PROCESSING TO ENHANCE THE MECHANICAL  
PROPERTIES USING VARIOUS PARAMETERS”**

Submitted by

V.JAGAN	14P35A0309
KAMLESH KUMAR YADAV	13P31A0321
T.KOTESH	13P31A0354
ESWAR SIMHADRI	13P31A0315
A.V.S.D.NAGENDRA GOWD	14P35A0312

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017

The Result embodied in this project report has not been submitted to any other institute or university for the award of any degree or diploma.

HEAD OF THE DEPARTMENT

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# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, NAAC and Affiliated to Jawaharlal Nehru  
Technological University, Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled **FABRICATION OF DUAL PURPOSE  
ARC WELDING & FURNACE**

Submitted by

LANKA RAM JAGADEESH KUMAR	14P35A0304
C.S.S.SRI KRISHNA	13P31A0309
MESWARA RAMESH	13P31A0330
P.V.R.CHAITANYA	13P31A0339
K.SATYA PRAKASH	13P31A0327

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology  
in Mechanical Engineering, during the academic year 2013-2017.

The Result embodied in this project report have not been submitted to any other  
institute or university for the award of any degree or diploma

### PROJECT GUIDE

  
**Mr. E. RAGHAVENDRA** M.Tech  
Asst. Professor

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### HEAD OF THE DEPARTMENT

  
**Mr. D. Deepu** M.Tech  
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**ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY**

(Affiliated to JNTU, Kakinada & Approved by AICTE, New Delhi)

**Department of Mechanical Engineering**



**CERTIFICATE**

This is to certify that project work entitled "e CART" is a bonafied work carried out by INAVEEN KUMAR (13P31A0319), B.ASWINI DATTU (13P31A0306), M.PHANINDRA (14P35A0305), L.SRI GURU VINAY (13P31A0329), K.KVENKATA NAVEEN (13P31A0329), R.SIVA KUMAR (13P31A0344), SOURAV NAMA (13P31A0329) at the college for the award of Bachelor of Technology in **MECHANICAL ENGINEERING** from Aditya college of engineering & Technology during the academic year 2013-2017.

  
**PROJECT SUPERVISOR**

**Mr M.RAM BABU, M.Tech.,**

Assistant Professor

  
**HEAD OF THE DEPARTMENT**

**Mr. D.DEEPU, M.Tech.,**

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**EXTERNAL EXAMINER**

  
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**SURAMPALEM- 533 437**



**ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY**

**APPROVED BY AICTE & AFFILIATED TO JNTUK, ACCREDITED BY NAAC**

**RECOGNIZED BY UGC UNDER SECTION 2(F) OF UGC ACT 1956**

**ADITYANAGAR, SURAMPALEM-533437**

**2013-2017**

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project report entitled "**FABRICATION OF MULTI PURPOSE MECHANICAL MACHINE**" is being submitted by

<b>Polepalli Durga venu</b>	<b>13P31A0340</b>
<b>Putsakayala manichandra</b>	<b>13P31A0341</b>
<b>Kesarapu Naga maneswararao</b>	<b>13P31A0324</b>
<b>Anaparthi Kiran kumar</b>	<b>13P31A0302</b>
<b>Kolluri Sriram</b>	<b>13P31A0326</b>

in partial fulfilment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017 and the result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma

  
**PROJECT GUIDE**

**Mrs.K.Keerthi**

Asst.professor

Dept.Of Mechanical Engineering  
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**HEAD OF THE DEPARTMENT**

**Mr.D.Deepu**

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**SURAMPALEM- 533437**

ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTU, Kakinada & Approved by AICTE, New Delhi)

Department of Mechanical Engineering



CERTIFICATE

This is to certify that project work entitled "HYBRID SOLAR WATER PUMPING USING PENDULUM BASED STORED ENERGY SYSTEM" is a bonafied work carried out by

THOTA RAVI KUMAR	(13P31A0353)
BATTULA HARI KALYAN	(14P35A0301)
PINISETTI SURYARAO	(14P35A0307)
SARIPILLI NAVEEN KUMAR	(14P35A0308)
TANETTI RATNA RAJU	(13P31A0352)

at the college for the award of Bachelor of Technology in MECHANICAL ENGINEERING from Aditya College of Engineering and Technology during the academic year 2013-2017.

PROJECT GUIDE

Mrs.K.KEERTHI, M.Tech.,

Assistant Professor

HEAD OF THE DEPARTMENT

Mr. D.DEEPU, M.Tech.,

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EXTERNAL EXAMINER

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SURAMPalem- 533 437

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Jawaharlal Nehru technological university

Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "Semi-Automatic pneumatic welding machine"

#### Submitted By

N.ESWAR SATYA SRINIVAS	13P31A0335
K.SUVEER	13P31A0322
CH.RAJESH	13P31A0311
FAISHAL NEHAL	13P310A314
R.VINOD KUMAR	13P31A0342
MD.ASHIK ALI	12P31A0335

In partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2013-2017. The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma

PROJECT GUIDE

Mr. T. Sagar

Asst. professor

Dept. Of Mechanical Engineering

Aditya College Of Engineering & Technology

HEAD OF THE DEPARTMENT

Mr. D. Deepu<sup>Mtech</sup>

Asst. professor

Dept. Of Mechanical Engineering

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EXTERNAL EXAMINER

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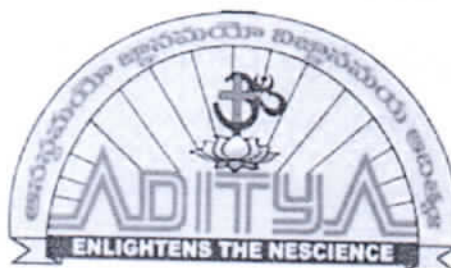


# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, NAAC and Affiliated to Jawaharlal Nehru Technological

University Kakinada, Kakinada-533003)

DEPARTMENT OF MECHANICAL ENGINEERING



## Certificate

This is to certify that the project report entitled "EXPERIMENTAL INVESTIGATION OF ENGINE PERFORMANCE AND EMISSION ANALYSIS OF DIESEL ENGINE OPERATING ON CALOPHYLLUM INOPHYLLUM OIL BIODIESEL BLENDS WITH CERIUM OXIDE AS NANO ADDITIVES" being submitted by

VISHAL KUMAR	(13P31A0359)
D.KRISHNA VAMSI	(13P31A0313)
O.AVINASH	(13P31A0337)
CH.PRASANTH	(13P31A0318)
B.SAI KUMAR	(13P31A0304)

in the partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering Department, during the academic year 2013-2017.

The Result embodied in this project report have not been submitted to any other Institute or University for the award of any degree or diploma.

PROJECT GUIDE

Mr. V.S. SANTOSH

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Dept. of Mechanical Engineering  
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Associate Professor

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**ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY**

Approved by AICTE, NAAC and Affiliated to JNTU

KAKINADA-533003

2013-17

**Department of Mechanical Engineering**



**CERTIFICATE**

This is to certify that the project work entitled "EXPERIMENTAL INVESTIGATION ON WELDING BEADS TO CHARACTERIZE MECHANICAL PROPERTIES USING FRICTION STIR WELDING ON DISSIMILAR ALUMINIUM ALLOYS-AA6061 & AA6063", is a being submitted by M.NAVEEN KUMAR(14P35A 0306), G.SATYASAI(13P31A0316), M.NAGENDRA(13P31A0333), MD.MAZHAR ALI(13P31A0332), Y.VENKATESWARAO(14P35A0310) submitted in partial fulfilment of the requirements for the award of Bachelor of Technology degree in Mechanical Engineering, during the academic year 2013-2017.

The results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

  
**HEAD OF THE DEPARTMENT**

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**PROJECT GUIDE**

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ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY  
APPROVED BY AICTE & AFFILIATED TO JNTUK, ACCREDITED BY NAAC  
RECOGNIZED BY UGC UNDER SECTION 2(F) OF UGC ACT 1956  
ADITYANAGAR, SURAMPALEM-533437

2013-2017

DEPARTMENT OF MECHANICAL ENGINEERING



**CERTIFICATE**

This is to certify that the project report entitled "DYNAMIC ANALYSIS OF 7 DOF FULL CAR MODAL USING PASSIVE AND SEMI ACTIVE SUSPENSION WITH SKY-HOOK CONTROL STRATEGY" is being submitted by

D.L.N MURTHY	(14P35A0302)
N.S.SHANMUKH	(13P31A0334)
H.S.MADHUKAR	(13P31A0317)
B.M.CHAITANYA	(13P31A0305)
V.V.V.S.N.MURTHY	(13P31A0358)
A.D.U.CHOWDARY	(13P31A0303)

Submitted in partial fulfilment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017 and the result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

PROJECT GUIDE

  
Mr. B.SAROJ BABU (M.E.)

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Engineering & Technology  
SURAMPALEM- 533 437



ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY  
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Recognized by UGC under the section 2(f) of UGC Act 1956  
2013-2017

DEPARTMENT OF MECHANICAL ENGINEERING



### Certificate

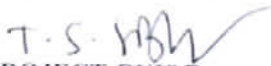
This is to certify that the project report entitled "AIR EVAPORATIVE COOLING  
ON CONDENSER WITH DOUBLE TUBE IN WINDOW A.C UNIT"


SUBMITTED BY

SHATRUDHAN THAKUR	13P31A0348
V.V. RAGHAVENDRA KIREETI	13P31A0356
N. VENKATESH	13P31A0336
SACHIN KUMAR	13P31A0345
P.S.R. KRISHNA KANTH	13P31A0338

Submitted in partial fulfillment of requirement for the award of Bachelor of  
Technology degree in mechanical engineering, during the academic year 2013-2017.

The Result embodied in this project report have not been submitted to any other  
institute or university for the award of any degree or diploma.

  
**PROJECT GUIDE**  
Mr. T.S.S. BHASKARA RAO  
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**HEAD OF THE DEPARTMENT**  
Mr. D. DEEPU  
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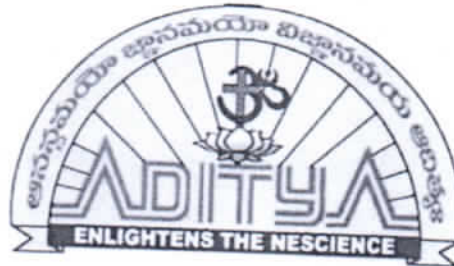
  
**PRINCIPAL**  
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Recognized by UGC under the section 2(f) of UGC Act 1956

2013-2017

DEPARTMENT OF MECHANICAL ENGINEERING



### Certificate

This is to certify that the project report entitled "EXPERIMENTAL DETERMINATION OF THERMAL CONDUCTIVITY OF ALLUVIAL SOIL"

SUBMITTED BY

KIRAN BINADI	(13P31A0325)
SANDEEP DANDAMUDI	(13P31A0312)
CHAKKA SANTOSH	(13P31A0308)
CH.V.R.V PRASAD	(13P31A0310)
MURALI KOVIRI	(13P31A0328)

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017.

The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

*N. V. V. Nageswara Rao*  
PROJECT GUIDE  
Mr. N.V.V NAGESWARA RAO  
Assistant Professor  
Dept. of Mechanical Engineering  
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Technology

*[Signature]*  
EXTERNAL EXAMINER

*[Signature]*  
PRINCIPAL  
Aditya College of  
Engineering & Technology  
SURAMPalem- 533 437

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Jawaharlal Nehru technological university

Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "Portable Spot Welding Machine"

Submitted By

K.V.V.A.SRAVAN KUMAR	14P35A0303
S.S.BALAKRISHNA REDDY	13P31A0347
RASAGYAPRADHAN	13P31A0343
A.GOWRI SHANKAR	13P31A0301
V.B.S.SAIKIRAN	13P31A0357

In partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2013-2017. The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma

  
PROJECT GUIDE

**Mr. J. Papa Rao** (M.TECH)

Asst. professor

Dept. Of Mechanical Engineering  
Aditya College Of Engineering &  
Technology.

  
HEAD OF THE DEPARTMENT

**Mr. D. Deepu** M.Tech

Asst. professor

Dept. Of Mechanical Engineering  
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Technology.

  
EXTERNAL EXAMINER

  
PRINCIPAL  
Aditya College of  
Engineering & Technology  
SURAMPalem - 533 437



# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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Recognized by UGC under section 2(f) of UGC Act 1956

Kakinada-533004, 2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled

### FABRICATION OF VORTEX FLOW AIR COOLER

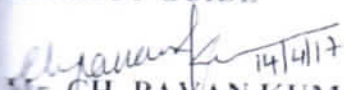
Submitted by

T. RAVI	13P31A0351
S. SAI SEKHAR	13P31A0350
K. MOSES BABU	13P31A0323
M. PHANI KUMAR	13P35A0331
B. GANGA SATISH	13P31A0307


Submitted in partial fulfillment of requirement for the award of Bachelor of Technology Degree in Mechanical Engineering, during the academic year 2013-2017.

The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

#### PROJECT GUIDE

  
Mr. CH. PAVAN KUMAR M. Tech.  
Asst. professor  
Dept. of Mechanical Engineering  
Aditya College of Engineering & Technology

#### HEAD OF THE DEPARTMENT

  
Mr. D. DEEPU M. Tech.  
Assoc. professor  
Dept. of Mechanical Engineering  
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#### EXTERNAL EXAMINER

  
PRINCIPAL  
Aditya College of  
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SURAMPalem- 533 437

**ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY**

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL  
UNIVERSITY Kakinada, Approved by AICTE, NAAC)

Surampalem, East Godavari District – 533437

**DEPARTMENT OF MECHANICAL ENGINEERING**




**CERTIFICATE**

This is certified that the project work entitled **AUTOROLL PUNCHING  
MACHINE USING GENEVA MECHANISM** being submitted by

A.ATCHYUTA RAJENDRA PRASAD	13P31A0362
P. NUTHAN RAJU	13P31A03A2
S. NETAJI	14P35A0322
I. SAIKIRAN	13P31A0378
A. KRISHNA KUMAR	13P31A0361

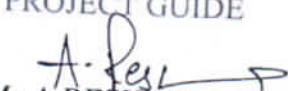
In a partial fulfillment of the requirements for award of the Bachelor of  
Technology Degree in Mechanical Engineering for the academic year 2013-2017.

**HEAD OF THE DEPARTMENT**

  
**Mr.D.DEEPUP, M.Tech**  
Associate professor

Department of Mechanical Engineering,  
Aditya College of Engineering & Technology.

**PROJECT GUIDE**

  
**Ms.A.RESHMA, M.Tech**  
Assistant professor

Department of Mechanical Engineering,  
Aditya College of Engineering & Technology.

  
**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
**Aditya College of**  
**Engineering & Technology**  
**SURAMPALAM- 533 437**

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, NAAC, Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Recognized by UGC under section 2(f) of UGC Act 1956

Kakinada-533004, 2013-2017.

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled

### “DESIGN AND FABRICATION OF TRI STAR”

Submitted by

B.VENKATESH	14P35A0314
V.SAI KIRAN	13P31A03B4
N.SATISH KUMAR	13P31A0391
G.B.PRASHANTH	14P35A0317
Y.LAKSHMI KANTH	13P31A03C0

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017

The Result embodied in this project report has not been submitted to any other institute or university for the award of any degree or diploma.

HEAD OF THE DEPARTMENT

Mr.D.DEEPU M.Tech.  
Associate Professor,  
Dept Of Mechanical Engineering,  
Aditya College Of Engg & Tech.

PROJECT GUIDE

Miss.T.PRASHANTHI M.Tech.  
Assistant Professor,  
Dept Of Mechanical Engineering,  
Aditya College Of Engg & Tech.

EXTERNAL EXAMINER

PRINCIPAL  
Aditya College of  
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SURAMPALEM- 533 411



# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(Affiliated to JNTU Kakinada, Approved by AICTE, New Delhi)

Surampalem, East Godavari District

2013-2017

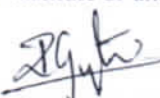
Department Of Mechanical Engineering



## CERTIFICATE

This is to certify that the project work entitled "FABRICATION OF SHREDDER" is being submitted by Mr. B.VeeraManikanta(14P35A0324), Mr.G.S.Chakradhara Rao (13P31A0373), Mr. K.K.P.L.N.V.Arun Kumar (13P31A0381), Mr. B. Vinay Kumar (13P31A0366), Mr.N. Mithra Venkata Sriram (13P31A0389) in partial fulfilment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering from Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by them at Aditya College of Engineering and Technology During the academic year 2013-2017.

The result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

  
PROJECT GUIDE

Miss. R. GAYATRI DEVI ME

Asst.professor

Dept. Of Mechanical Engineering

Aditya College of Engineering & Technology

  
HEAD OF THE DEPARTMENT

Mr.D.Deepu MTECH

Asst.professor

Dept. Of Mechanical Engineering

Aditya College of Engineering & Technology

  
EXTERNAL EXAMINER

  
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Engineering & Technology  
SURAMPALAM- 533 437

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Jawaharlal Nehru Technological University, Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "DESIGN AND FABRICATION OF CANAL CLEANING MACHINE" is being submitted in partial fulfilment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017.

The Results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma

Submitted by

U.SUDHEER	13P31A03B3
G.MURALI KRISHNA	13P31A0377
S.ROHIT	13P31A03A5
B.SRINIVASARAO	14P35A0313
M.V.D.CHARAN	13P31A0384

  
PROJECT GUIDE

Mr. D. SRINIVASU M. Tech

Assistant professor

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Aditya College of Engineering & Technology

  
HEAD OF THE DEPARTMENT

Mr. D. DEEPU M. Tech

Associate professor

Dept. of Mechanical Engineering

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EXTERNAL EXAMINER

  
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Aditya College of  
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SURAMPALEM- 533 437

# ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, NAAC and Affiliated to Jawaharlal Nehru Technological  
University, Recognized by UGC under section 2(f) of UGC Act 1956

Kakinada-533003

DEPARTMENT OF MECHANICAL ENGINEERING



## CERTIFICATE

This is to certify that the mini project report entitled "OPTIMIZATION OF SURFACE ROUGHNESS IN CNC MILLING MACHINE BY USING TAGUCHI & ANOVA TECHNIQUES" submitted by P.V.S.K.PRASAD(13P31A0396), B.JOHNSON (13P31A0364), VISHAL PRASAD.K (13P31A03B9),G.JASHUVA (13P31A0375) in fulfilment for the award of the Degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** to Aditya College of Engineering and Technology affiliated to Jawaharlal Nehru Technological University Kakinada is a record of the bonafide work carried out under my guidance and supervision. The results presented in this project report have not been submitted to any other university or Institute for the award of any degree.

  
13/4/19

PROJECT GUIDE

Mr. A. SRIDHAR REDDY, M.Tech.

Assistant Professor  
Dept. of Mechanical Engineering  
Aditya College of Engineering & Tech

  
HEAD OF DEPARTMENT

Mr. D. DEEPU, M.Tech.

Associate Professor  
Dept. of Mechanical Engineering  
Aditya College of Engineering & Tech.



EXTERNAL EXAMINER

  
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SURAMPalem - 533 437



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Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "FABRICATION OF THERMOELECTRIC REFRIGERATOR"

Submitted by

PANKAJ KUMAR

13P31A0393

O. H. V. V. SATYANARAYANA

13P31A0392

DEVALANKA LAKSHMI SAI

14P35A0325

S. V. V. D. PRASAD

13P31A03A3

P. VIJAY KUMAR

13P31A0394

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017

The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma

PROJECT GUIDE

Mr. H. SURESH BABU RAO

Assoc. Professor

Dept. Of Mechanical Engineering

Aditya College of Engineering & Technology

HEAD OF THE DEPARTMENT

Mr. D. DEEPU

Assoc. Professor

Dept. Of Mechanical Engineering

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SURAMPalem- 533 437

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, NAAC and Affiliated to Jawaharlal Nehru Technological University, Kakinada-533003

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that project work entitled "CAR TILTING EQUIPMENT" is a bonafide work carried out by P V K CHAITANYA (13P31A0398), CH SAIBABU (13P31A0369), D CHANDRASHEKAR (13P31A0372), P VINAY (13P31A0376), T DURGARAO (13P31A03B1), in the partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** to the Jawaharlal Nehru Technological University, Kakinada during the academic year 2013-2017.

The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

#### PROJECT SUPERVISOR

Ms M.S. PRAVALLIKA, M.Tech.

Assistant Professor  
Dept. of Mechanical Engineering  
Aditya College of Engineering & Tech

#### HEAD OF THE DEPARTMENT

Mr. D. DEEPU, M.Tech.

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EXTERNAL EXAMINER

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**Engineering & Technology**  
**SURAMPALEM- 533 437**

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Recognized by UGC under section 2(f) of UGC Act 1956

Kakinada-533004, 2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled

## DESIGN AND FABRICATION OF MANUAL OPERATED RICE TRANSPLANTING MACHINE

Submitted by

CH.V.V. SATYANARAYANA	14P35A0315
CH. V. SATYANARAYANA	13P31A0370
CH. LAKSHMAN SAI	13P31A0368
K. PRADEEP KUMAR	14P35A0318
D. V. V. MANIKANTA	13P31A0371

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology Degree in Mechanical Engineering, during the academic year 2013-2017.

The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

#### PROJECT GUIDE

Mr. E. RAGHAVENDRA M. Tech.,

Asst. professor

Dept. of Mechanical Engineering

Aditya College of Engineering & Technology

#### HEAD OF THE DEPARTMENT

Mr. D. DEEPU M. Tech.,

Assoc. professor

Dept. of Mechanical Engineering

Aditya College of Engineering & Technology

EXTERNAL EXAMINER

PRINCIPAL  
Aditya College of  
Engineering & Technology  
SURAMPalem - 533 437



## ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(APPROVED BY AICTE, NAAC, AFFILIATED TO JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA)

RECOGNIZED BY UGC UNDER SECTION 2(F) OF UGC ACT 1956

KAKINADA-533004, 2013-2017

Department of Mechanical Engineering



### CERTIFICATE

This is to certify that project work entitled "AUTO INDEXING MACHINE" is a bonafied work carried out by N.S.N.S.PAVAN(13P31A0390), V.H.N.S.PRASAD(13P31A03B7), K.D.G.K.P.SREENU(13P31A0382), S.MOHID HUSSAIN(14P35A0321), VIKAS LAKRA(13P31A03B8) at the college for the award of Bachelor of Technology in MECHANICAL ENGINEERING from Aditya college of engineering & Technology during the academic year 2013-2017.

  
PROJECT GUIDE

Mr M.RAMBABU, M.Tech.,

Assistant Professor  
Dept. Of Mechanical Engineering,  
Aditya College Of Engg & Tech.

  
HEAD OF THE DEPARTMENT

Mr. D.DEEPU, M.Tech.,

Associate Professor  
Dept. Of Mechanical Engineering,  
Aditya College Of Engg & Tech.

  
EXTERNAL EXAMINER

  
PRINCIPAL  
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Engineering & Technology  
SURAMPALEM- 533 437

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Recognized by UGC under section 2(f) of UGC Act 1956

Kakinada-533004, 2013-2017.

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled

**"DESIGN AND FABRICATION OF WALL PAINTING MACHINE"**

Submitted by

P.YASWANTH KUMAR	13P31A0395
P.NARESH	13P31A0399
Y.CHINNA SRINU	14P35A0323
SUDHAKAR PANDEY	13P31A03A8
RAVI KUMAR	13P31A03A1
T.SAIRAM	13P31A03B2

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017

The Result embodied in this project report has not been submitted to any other institute or university for the award of any degree or diploma.

HEAD OF THE DEPARTMENT

Mr.D.DEEPU M.Tech.

Associate Professor,  
Dept. Of Mechanical Engineering,  
Aditya College of Engg & Tech.

PROJECT GUIDE

Mr.P.VENKATA MAHESH M.Tech.

Assistant Professor,  
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# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Jawaharlal Nehru technological university, Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "ABRASIVE JET MACHINE" is being submitted in partial fulfilment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017.

The Results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

Submitted by

A.D.S.S.D.KAMESH	I3P31A0363
MANAND BABU	I3P31A0385
V.V.V.PHANINDRANADH	I3P31A03B5
G.KRANTHI KUMAR	I3P31A0374
PRAB IR BAIDYA	I3P31A0397

PROJECT GUIDE

T.S.SAGAR M.E

Assistant professor

Dept. of Mechanical Engineering

Aditya College of Engineering & Technology

HEAD OF THE DEPARTMENT

Mr. D.DEEPU M. Tech

Assistant professor

Dept. of Mechanical Engineering

Aditya College of Engineering & Technology

EXTERNAL EXAMINER

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Aditya College of  
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SURAMPALAM- 533 437



DEPARTMENT OF MECHANICAL ENGINEERING  
ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY  
Affiliated to Jawaharlal Nehru technological university  
Kakinada-533003

2013-2017



**CERTIFICATE**

This is to certify that the project report entitled "MODAL ANALYSIS OF MULTI-CYLINDER 4- STROKE ENGINE"

Submitted by

Y.MAHESH	13P31A03I0
SANTOSH SUBEDI	13P31A03D7
G.ADITYA	14P35A0335
M.KRISHNA BHARGAV	13P31A03E6
PAPPU KUMAR	13P31A03F4

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering, during the academic year 2013-2017. The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.



**PROJECT GUIDE**  
**Mr.B.SAROJ BABU**

Asst. Professor  
Dept. Of Mechanical Engineering  
Aditya College of Engineering&Technology



**HEAD OF THE DEPARTMENT**  
**Mr.H.SURESH BABU RAO**

Assoc. Professor  
Dept. of Mechanical Engineering  
Aditya College of Engineering&Technology

  
**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
**Aditya College of**  
**Engineering & Technology**  
**SURAMPALEM- 533 43**

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA-533003

2013-17

## Department of Mechanical Engineering



### CERTIFICATE

This is to certify that the project work entitled "DESIGN, ANALYSIS & PERFORMANCE OF SUPERCHARGER & TURBOCHARGER", are a being submitted by JAY KISHOR KUMAR (13P31A03D6) & RAVI RANJAN MISHRA (13P31A03G0) submitted in partial fulfilment of the requirements for the award of Bachelor of Technology degree in Mechanical Engineering, during the academic year 2013-2017.

The results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

HEAD OF THE DEPARTMENT

H.Suresh Babu Rao

M.Tech, Ph.D

Dept. of Mechanical Engineering

Aditya College of Engineering & Technology

PROJECT GUIDE

R.Gayatri Devi

M.E.

Dept. of Mechanical Engineering

Aditya College of Engineering & Technology

EXTERNAL EXAMINER

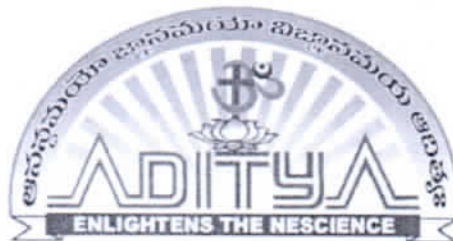
PRINCIPAL

Aditya College of  
Engineering & Technology  
SURAMPalem- 533 437

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, NAAC and Affiliated to Jawaharlal Nehru Technological  
University, Kakinada-533003

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled “**MECHANICAL PROPERTIES  
OF COMPOSITE LAMINATES**”

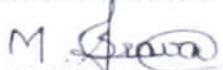
#### Submitted By

CH SURYA TEJA	13P31A03C8
V.L.S.P MOHAN KUMAR	13P31A03H2
G.SATYA SRINIVAS	13P31A03D2
V GANGADHAR	13P31A03H6
P SUNIL	13P31A03F5

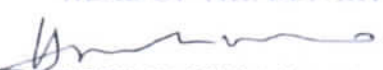
In partial fulfilment of requirement for the award of Bachelor of Technology in  
Mechanical Engineering, during the academic year 2013-2017.

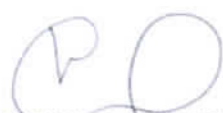
The Result embodied in this project report have not been submitted to any other  
institute or university for the award of any degree or diploma.

#### PROJECT GUIDE

  
Ms. M.S.PRAVALLIKA, M. Tech  
Asst.Professor  
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Aditya College of Engineering & Tech

#### HEAD OF THE DEPARTMENT

  
Mr. H SURESH BABU RAO, M. Tech (Ph.D)  
Assoc.Professor  
Dept. of Mechanical Engineering  
Aditya College of Engineering & Tech.

  
EXTERNAL EXAMINER





## CERTIFICATE

This is to certify that the project report entitled "DESIGN AND FABRICATION OF PORTABLE PAPER RECYCLING MACHINE"

Submitted by

B. VARA PRASAD	13P31A03C6
K.DURGA PRASANTH	13P31A03D9
K. HEMANTH	13P31A03E1
CH.R.A.FEROJ ISRAEL	13P31A03C7
J.SAI KUMAR	13P31A03D5
P.VISWESWARARAO	14P35A0331

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering ,during the academic year 2013-2017.

The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

**PROJECT GUIDE**

  
**Ms.A.RESHMA**

Asst.professor ,M.tech

Dept. Of Mechanical Engineering

**HEAD OF THE DEPARTMENT**

  
**Mr.H.SURESH BABU RAO**

Assoc.proffesor ( PH.D )& M.Tech

Dept. Of Mechanical Engineering

  
**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
Aditya College of  
Engineering & Technology  
SURAMPALEM- 533 437

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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Kakinada-533003

2013-2017

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "DESIGN AND FABRICATION OF AUTOMATIC PLATE CLEANING MACHINE" Submitted by

K.SAITEJA	13P31A03D8
M.S.V.V.NAVEEN	13P31A03E4
SONU KUMAR	13P31A03G5
ROHIT ANAND	13P31A03G1
G.NAVEEN	13P31A03D1
T.PRAVEEN KUMAR REDDY	13P31A03I3

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering ,during the academic year 2013-2017.The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

#### PROJECT GUIDE

Ms.T.PRASHANTHI

Asst.professor

Dept. Of Mechanical Engineering

Aditya College Of Engineering & Technology

#### HEAD OF THE DEPARTMENT

Mr.H.SURESH BABU RAO

Assoc.professor

Dept. Of Mechanical Engineering

Aditya College Of Engineering & Technology

EXTERNAL EXAMINER

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Aditya College of  
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Kakinada-533003

2013-2017

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project report entitled "**EXPERIMENTAL EFFECT ON AA 6061 USING FRICTION STIR PROCESSING TO ENHANCE THE MECHANICAL PROPERTIES USING VARIOUS PARAMETERS**"

Submitted by

<b>B.NAGABABU</b>	<b>13P31A03C4</b>
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Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in mechanical engineering ,during the academic year 2013-2017.The Result embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

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**ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY**

(Approved by AICTE, Affiliated to JNTUK, Accredited by NAAC)

Recognized by UGC under section 2(f) of UGC Act 1956

Kakinada-533003

2013-2017

DEPARTMENT OF MECHANICAL ENGINEERING



**CERTIFICATE**

This is to certify that the project report entitled  
"EXPERIMENTAL INVESTIGATION OF DIESEL ENGINE  
PERFORMANCE AND EMISSION ANALYSIS OPERATING ON  
WCO BIO-DIESEL AND ITS BLENDS WITH CERIUM OXIDE AS  
NANO ADDITIVES"

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