

**K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS),  
KADAPA**

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

(Accredited by NAAC of UGC)

(An ISO 19001:2008 & 14001:2004 Certified Institution)

KADAPA-516 003 (A.P)

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

*This is to certify that project report entitled “**COUPLED FIELD ANALYSIS OF A STEEL CHIMNEY**” is bonafied work done by*

<b>M.VENUCHANDRA</b>	<b>(159Y1A0384)</b>
<b>S.MOHAMMED UMAR</b>	<b>(159Y1A03C0)</b>
<b>O.SURENDRANATH REDDY</b>	<b>(159Y1A0389)</b>
<b>P.HEMA SUNDHAR</b>	<b>(159Y1A03A1)</b>
<b>J.KRUPA PRASANNA RAJ</b>	<b>(159Y1A0358)</b>
<b>K.BALA SUBRAMANYAM</b>	<b>(159Y1A0363)</b>

*For Partial Fulfillment of the requirement for the Award of the Degree of*

**“BACHELOR OF TECHNOLOGY”**

**IN**

**“MECHANICAL ENGINEERING”**

*Of the JNTU Anantapuram under my supervision and guidance*

*During the academic year 2018-2019*

**Guide:**

*K. Suresh Kumar*  
20/4/19

**Sri K.SURESH KUMAR, M.Tech**

**Associate Professor**

**Mechanical Engineering Department**

**Date:**

*D. Ravi Kanth*  
**Internal examiner**

*02/05/19*

*D. Ravi Kanth*  
**Head of the Department:**

**Dr. D.RAVI KANTH, M.Tech, Ph.D**

**Professor & HOD**

**Mechanical Engineering Department**

*K. Suresh Kumar*  
**External Examiner**



## CONCURRENT ANALYSIS PVT. LTD.

Regd. No. 01-43919

Flat No.: 201, 12-2-823/C/54, Balaji Enclave, SBI Colony, Mehdiapatnam,  
Hyderabad-28. Phone: 040-23518467, Mobile : 9391033002  
www.capl.co.in, email: reddy.prr@capl.co.in, reddy\_prr@capl.co.in

Date :

### CERTIFICATE

*This is to certify that the dissertation work entitled "Coupled Field Analysis of Chimney Used in Cement Industry", is a bonafide record of the work done by*

**M.VENU CHANDRA**

(Roll no:159Y1A0384),

**J.KRUPA PRASANNA RAJ**

(Roll no:159Y1A0358),

**O.SURENDRANATH REDDY**

(Roll no:159Y1A0389),

**K.BALA SUBRAMANYAM**

(Roll no:159Y1A0363),

**P.HEMA SUNDAR**

(Roll no: 159Y1A03A1),

**S.MOHAMMED UMAR**

(Roll no: 159Y1A03C0),

*for the requirement to fulfill the B.Tech thesis work. This work has been carried by her at our organization.*

*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.*

**Dr. P. RAVINDER REDDY**

Director

Concurrent Analysis Pvt Ltd

HYDERABAD- 28





**K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA**

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KADAPA-516 003 (A.P)

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

*This is to certify that project report entitled “**OPTIMIZATION OF A GAS TURBINE INLET DUCT USING CFD**” is bonafied work done by*

<b>K.VISHNU VARDHAN</b>	<b>(159Y1A0364)</b>
<b>K.ARUN KUMAR</b>	<b>(159Y1A0370)</b>
<b>M.MAHABOOB SHARIF</b>	<b>(159Y1A0385)</b>
<b>N.VAMSI KRISHNA REDDY</b>	<b>(159Y1A0386)</b>
<b>R.PAVAN KUMAR</b>	<b>(159Y1A03A5)</b>
<b>S.AFZAL</b>	<b>(159Y1A03C5)</b>

*For Partial Fulfillment of the requirement for the Award of the Degree of*

**“BACHELOR OF TECHNOLOGY”**

**IN**

**“MECHANICAL ENGINEERING”**

*Of the JNTU Anantapuramu under my supervision and guidance*

*During the academic Year 2018-2019*

**Guide:**

**Sri A.HARI KRISHNA, M.Tech**

**Asst. Professor**

**Mechanical Engineering Department**

**Date:**

**Head of the Department:**

**Dr. D.RAVI KANTH, M.Tech, Ph.D**

**Professor & HOD**

**Mechanical Engineering Department**

**Internal Examiner**

**External Examiner**



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Hyderabad-28. Phone: 040-23518467, Mobile : 9391033002  
www.capl.co.in, email: reddy.prr@capl.co.in, reddy\_prr@capl.co.in

Date :

### CERTIFICATE

*This is to certify that the dissertation work entitled “Computational Fluid Dynamics Simulation and Optimization of a Gas Turbine Inlet Duct”, is a bonafide record of the work done by*

**S.AFZAL**

*(Roll.no:159Y1A03C5),*

**K.ARUN KUMAR**

*(Roll.no:159Y1A0370),*

**K.VISHNU VARDHAN**

*(Roll.no:159Y1A0364),*

**M.MAHABOOB SHARIF**

*(Roll.no:159Y1A0385),*

**N.VAMSI KRISHNA REDDY**

*(Roll no: 159Y1A0386),*

**R.PAVAN KUMAR**

*(Roll no: 159Y1A03A5)*

*for the requirement to fulfill the B.Tech thesis work. This work has been carried by her at our organization.*

*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.*

**Dr. P. RAVINDER REDDY**  
Director

Concurrent Analysis Pvt Ltd  
HYDERABAD- 28





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(An ISO 9001:2000 Certified Institution)

KADAPA – 516003(A.P)

(2018-2019)



## DEPARTMENT OF MECHANICAL ENGINEERING

### CERTIFICATE

*This is to Certify that the Project work entitled*  
**POWER-GENERATION BY KNEE STRAPHINTS** *is bonafide record of project work done by*

K.NARESH	(159Y1A0360)
S.AMEENULLA	(159Y1A03A8)
P.MANSOOR BASHA	(159Y1A0399)
P.AMARNATH REDDY	(159Y1A0391)
M.RAJASEKHAR	(159Y1A0378)
K.A.VISHNUVARDHAN REDDY	(159Y1A0367)

In partial fulfillment of the requirements for the Award of the DEGREE of

## BACHELOR OF TECHNOLOGY

IN

## MECHANICAL ENGINEERING

**Project Guide:**

*Schm*  
*18/4/19*  
**Sri.S.MAHABOOB KHAN,M.TECH.,**  
**Assistant Professor**  
**Department of M.E**

**Head of theDepartment:**

*Dr. D. Ravikanth*  
**Dr.D.RAVIKANTH,M.E,Ph.D**  
**Professor & HOD,**  
**Department of M.E**

**Date:**

*Dr. D. Ravikanth*  
**Internal Examiner:**

**External Examiner:**

# K.S.R.M COLLEGE OF ENGINEERING

(AUTONOMOUS)

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(Accredited by NAAC, of UGC, Bangalore)

(An ISO 9001:2015 Certified Institution)

KADAPA – 516003 (A.P)

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that project report entitled “ **FABRICATION OF PICK AND PLACE ROBOTIC ARM** ” is bonafide work done by

B.SREENU

(159Y1A0325)

E.SAI CHARAN

(159Y1A0341)

T.ROJA

(159Y1A03D4)

AB.GURU PRASAD

(159Y1A0302)

A.RAJ KUMAR

(159Y1A0306)

B.SIVA KUMAR

(159Y1A0315)

for the partial fulfilment of the requirement for the award of the degree of “**BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING**” During the academic year 2018 – 2019.

*Suresh*

PROJECT GUIDE:

**J. SURESH BABU, MTech.,**  
Assistant Professor  
Department of Mechanical Engineering,  
KSRMCE, Kadapa.

*Dr. D. Ravi Kanth M. E., Ph.D.,*

HEAD OF THE DEPARTMENT

**Dr. D. Ravi Kanth M. E., Ph.D.,**  
Professor & HOD  
Department of Mechanical Engineering,  
KSRMCE, Kadapa.

Date: \_\_\_\_\_

*[Signature]*  
Internal examiner

External Examiner



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(An ISO 9001:2000 Certified Institution)  
KADAPA – 516003(A.P)

(2018-2019)

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that Project report entitled **“STRUCTURAL AND THERMAL ANALYSIS OF DISC BRAKE SYSTEM BY USING ANSYS”** is bonafide record of project work done by P.VENKATA SAI KUMARREDDY (159Y1A0398), S.VENU (159Y1A03C3), P.MANOJ KUMAR (159Y1A03A3), K.SRAVAN KUMAR (159Y1A0374), S.MOHAMMED NADEEM (159Y1A03B7) and S. MOHAMMED RIYAZ BASHA (159Y1A03B8) in partial fulfillment of the requirements for the award of degree of **“BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING”** during the year 2018-2019.

**Project Guide:**

*[Signature]*  
18-4-19

**Sri R.MAHESH**, M.Tech.,  
Assistant Professor,  
Department of Mechanical Engg.,  
K.S.R.M College of Engg., Kadapa.

**Head of the Department:**

*[Signature]*

**Dr.RAVIKANTH**, M.Tech., Ph.D.,  
Professor & HOD,  
Department of Mechanical Engg.,  
K.S.R.M College of Engg., Kadapa.

**Date:**

*[Signature]*  
Internal Examiner

**External Examiner**

**KANDULA SREENIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING**

**(AUTONOMOUS)**

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KADAPA – 516003(A.P)

(2018-2019)



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

This is to Certify that the Project work entitled “**FABRICATION OF ANDROID BASED SENSING DEVICE FOR MILITARY APPLICATIONS**” is bonafide record of project work done by

**S. RAVI CHANDRA** (169Y5A0322)

**P. SREENIVASULU** (169Y5A0318)

**MS. MAHAMAD ARIF** (169Y5A0315)

**U. ESWARA SAI** (169Y5A0324)

**S. MAHAMMAD ALI** (159Y1A03C6)

**T.NOOR AHAMAD** (159Y1A03D9)


In partial fulfillment of the requirements for the Award of the DEGREE of

**BACHELOR OF TECHNOLOGY**

**IN**

**MECHANICAL ENGINEERING**

**Project Guide:**

  
**Sri M. MOHAN REDDY, M.Tech.,**  
Assistant Professor,  
Department of M.E.

**Head of the Department:**

  
**Dr.D.RAVIKANTH, M.E.,Ph.D.,**  
Professor and HOD,  
Department of M.E.

**Date:**

  
**Internal Examiner**

**External Examiner**



**KANDULA SREENIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING**

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**KADAPA – 516003(A.P)**

**(2018-2019)**



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

*This is to Certify that the Project work entitled "**AUTOMATIC WEIGHT-LIFT SYSTEM**" is  
bonafide record of project work done by*

<b>V.JAGADEESWAR REDDY</b>	<b>(159Y1A03E3)</b>
<b>M.GANASAI</b>	<b>(169Y5A0313)</b>
<b>A.SREENIVASULU</b>	<b>(169Y5A0302)</b>
<b>T SIVAPRATHREDDY</b>	<b>(159Y1A03C7)</b>
<b>CH.SRIRAM PRASAD</b>	<b>(169Y5A0304)</b>
<b>T. NANDITH KUMAR</b>	<b>(159Y1A03D2)</b>

**In partial fulfillment of the requirements for the Award of the DEGREE of**

**BACHELOR OF TECHNOLOGY**

**IN**

**MECHANICAL ENGINEERING**

*17/04/19*  
**Project Guide:**

**Sri R.RAMAKRISHNA REDDY, M.E, M.I.S.T.E**

**Associative Professor**

**Department Of M.E**

*Dr. D. Ravikanth*  
**Head of the Department:**

**Dr.D.RAVIKANTH, M.E, Ph.D**

**Professor and HOD,**

**Department Of M.E**

**Date:**

*Dr. D. Ravikanth*  
**Internal Examiner:**  
*Dr. D. Ravikanth*

*Dr. D. Ravikanth*  
**External Examiner:**



# SR TECHNOLOGIES

A-6,2nd Floor, Eureka Court,  
Ameerpet, Hyderabad-73.  
Tel : +91 40 23750060  
Cell : 9640528728

E-mail : srt.srtechnologies@gmail.com

## CERTIFICATE

This is to certify that the candidates named

V. JAGADEESWAR REDDY

Roll. No. 159Y1A03E3

M. GANA SAI

Roll. No. 169Y5A0313

A. SREENIVASULU

Roll. No. 169Y5A0302

T. SIVA PRATHAP REDDY

Roll. No. 159Y1A03C7

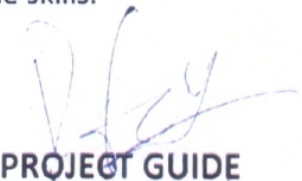
CH. SRIRAM PRASAD

Roll. No. 169Y5A0304

T. NANDITH KUMAR

Roll. No. 159Y1A03D2

from "K.S.R.M COLLEGE OF ENGINEERING, YERRAMASUPALLI, KADAPA" during the year 2019 had undergone project at "SR TECHNOLOGIES, HYD" from 18<sup>th</sup> February to 10<sup>th</sup> March, 2019. The project entitled "AUTOMATIC WEIGHT-LIFT SYSTEM" is a record of the bonafied work under taken by them towards partial fulfillment for the project in "B.TECH-ME". They showed good capability in entire project related work and well versed with the skills.

  
PROJECT GUIDE  
B. SAI KIRAN



**KANDULA SREENIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING**  
(AUTONOMOUS)

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KADAPA – 516003(A.P)

(2018-2019)



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

This is to Certify that the Project work entitled “**FABRICATION OF ANDROID BASED SENSING DEVICE FOR MILITARY APPLICATIONS**” is bonafide record of project work done by

S. RAVI CHANDRA (169Y5A0322)

P. SREENIVASULU (169Y5A0318)

MS. MAHAMAD ARIF (169Y5A0315)

U. ESWARA SAI (169Y5A0324)

S. MAHAMMAD ALI (159Y1A03C6)

T.NOOR AHAMAD (159Y1A03D9)


In partial fulfillment of the requirements for the Award of the DEGREE of

**BACHELOR OF TECHNOLOGY**


**IN**

**MECHANICAL ENGINEERING**

**Project Guide:**

  
Sri M. MOHAN REDDY, M.Tech.,  
Assistant Professor,  
Department of M.E.

**Head of the Department:**

  
Dr.D.RAVIKANTH, M.E,Ph.D.,  
Professor and HOD,  
Department of M.E.

**Date:**

  
Internal Examiner

  
External Examiner

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KADAPA – 516003(A.P)

(2018-2019)

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This Is to certify that Project report entitled "OPTIMIZATION OF TURNING PROCCES PARAMETERS ON Mg ALLOY (Az91) AND Al ALLOY (64430) USING TAGUCHI TECHNIQUE" Is bonafide record of project work done by

K.SREENIVASULA REDDY	(159Y1A0371)
P.YUGANDHAR YADAV	(159Y1A03A2)
P. ASHOK KUMAR	(159Y1A0394)
S.MOHAMMED SHAKEER	(159Y1A03B9)
K.PRAVEEN KUMAR	(159Y1A0365)
P.HEMANTH KUMAR REDDY	(159Y1A0392)

in partial fulfillment of the requirements for the award of degree of "BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING" during the year 2018-2019.

  
Project Guide:

Sri B.SUBBARAYUDU M.Tech,  
Assistant Professor,  
Department of Mechanical Engg  
K.S.R.M College of Engg .Kadapa

  
Head of the Department:

Dr. D. RAVI KANTH  
Professor & HoD  
Dept. of MECH  
K.S.R.M.C.E, Kadapa.

Date:

  
Internal Examiner

External Examiner



**KANDULA SREENIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING**

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**KADAPA – 516003(A.P)**

**(2018-2019)**



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

*This is to certify that the Project work entitled “**DUAL AXIS SOLAR TRACKING SYSTEM**” is bonafide record of project work done by*

<b>C.VENKATA MOUNI SUNIL</b>	<b>(169Y5A0305)</b>
<b>T.SRINIVASULU</b>	<b>(159Y1A03D1)</b>
<b>J.SATHEESH KUMAR</b>	<b>(169Y5A0310)</b>
<b>T.MANOJ KUMAR</b>	<b>(159Y1A03D8)</b>
<b>T.TULASI NARSIMHA REDDY</b>	<b>(169Y5A0326)</b>
<b>S.HAJI BASHA</b>	<b>(169Y5A0320)</b>

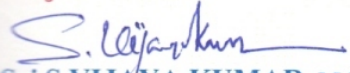
**In partial fulfillment of the requirements for the Award of the DEGREE of**

**BACHELOR OF TECHNOLOGY**

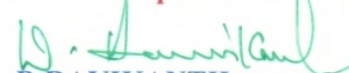
**IN**

**MECHANICAL ENGINEERING**

**Project Guide:**

  
**Sri S.VIJAYA KUMAR, M.E.**  
Assistant Professor  
Department of M.E

**Head of the Department:**

  
**Dr.D.RAVIKANTH, M.E, Ph.D**  
Professor and HOD,  
Department of M.E

**Date:**

  
**Internal Examiner:**

**External Examiner:**

**KANDULA SREENIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING**

**(AUTONOMOUS)**

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**(An ISO 9001:2000 Certified Institution)**

**KADAPA – 516003(A.P)**

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to Certify that the Project work entitled “**DESIGN AND ANALYSIS OF AIRCRAFT DISC BRAKE**” is bonafide record of project work done by

**GASIF HUSSAIN (159Y1A03D0)**

**LJAFFAR BASHA (169Y5A0323)**

**Y.VISHNU VARDHAN (159Y1A03F0)**

**Y.RABBANI (159Y1A03E8)**

**N.NITHYA VARDHAN REDDY (169Y5A0317)**

**D.MAHEER BASHA (169Y5A0306)**

In partial fulfillment of the requirements for the Award of the **DEGREE** of

**BACHELOR OF TECHNOLOGY**

**IN**

**MECHANICAL ENGINEERING**

**Project Guide:**

**Dr.D.RAVIKANTH, M.E, Ph.D**

**Professor and HOD,**

**Department of M.E.**

**Head of the Department:**

**Dr.D.RAVIKANTH, M.E,Ph.D**

**Professor and HOD,**

**Department Of M.E**

**Date:**

**Internal Examiner:**  
06/05/19

**External Examiner:**  
06/05/19





REGD NO:167/2013

## CEMEC TECHNOLOGIES

### Project Completion Certificate

This is to certify that Mr. **G.ASIF HUSSAIN (169Y5A0309)**, **L.JAFFAR BASHA (169Y5A0312)**, **Y.VISHNU VARDHAN (159Y1A03F0)** , **Y.RABBANI (159Y1A03E8)** , **N.NITHYA VARDHAN REDDY (169Y5A0317)**, **D.MAHEER BASHA (169Y5A0306)** has successfully completed his project work entitled **DESIGN AND ANALYSIS OF AIRCRAFT DISC BRAKE** in CEMEC Technologies, Kadapa from 18/02/2019 to 18/03/2019.

During the project work he has successfully completed following trainings.

1. CATIA V5 R20 (Part Design, Assembly, Drafting, GSD)
2. ANSYS Work Bench 14.5

During the tenure of the project his conduct was good and satisfactory.

For CEMEC Technologies

B.NagaSunil M.Tech

B.Anudeep M.Tech.IITW

## K.S.R.M. COLLEGE OF ENGINEERING

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KADAPA – 516003(A.P)

(2018-2019)

### DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled "Mechanical properties of Al LM25 alloy reinforced with B4C" is Bonafide record of project work done by

M. CHAITANYA

(159Y1A0381)

K. RADHA KRISHNA

(159Y1A0369)

M. NAVANEETH RAJU

(159Y1A0383)

O.HARSHAVARDHAN REDDY

(159Y1A0388)

J. ASHOK KUMAR REDDY

(159Y1A0359)

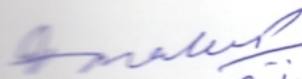
M. REDDY CHARAN

(159Y1A0380)

K. SANDEEP KUMAR REDDY

(159Y1A0362)

in partial fulfilment of the requirements for the award of degree of "BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING" during the year 2018-2019.

Project Guide:   
20/4/19

U. PRADEEP KUMAR, M-TECH

ASSISTANT PROFESSOR

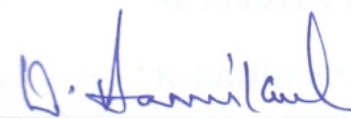
DEPARTMENT OF MECHANICAL ENGINEERING

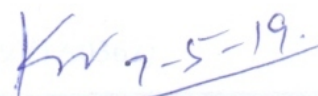
  
Head of the Department:

Dr. RAVIKANTH, M-TECH, PHD

DEPARTMENT OF MECHANICAL  
ENGINEERING

DATE:

  
INTERNAL EXAMINER  
27/05/2019

  
EXTERNAL EXAMINER



**KANDULA SREENIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING**  
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(An ISO 9001:2000 Certified Institution)

KADAPA – 516003(A.P)

(2018-2019)



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

*This is to certify that the Project work entitled “**DUAL AXIS SOLAR TRACKING SYSTEM**” is bonafide record of project work done by*

<b>C.VENKATA MOUNI SUNIL</b>	<b>(169Y5A0305)</b>
<b>T.SRINIVASULU</b>	<b>(159Y1A03D1)</b>
<b>J.SATHEESH KUMAR</b>	<b>(169Y5A0310)</b>
<b>T.MANOJ KUMAR</b>	<b>(159Y1A03D8)</b>
<b>T.TULASI NARSIMHA REDDY</b>	<b>(169Y5A0326)</b>
<b>S.HAJI BASHA</b>	<b>(169Y5A0320)</b>


In partial fulfillment of the requirements for the Award of the DEGREE of

**BACHELOR OF TECHNOLOGY**


**IN**

**MECHANICAL ENGINEERING**

**Project Guide:**

  
**Sri S.VIJAYA KUMAR, M.E.**  
Assistant Professor  
Department of M.E

**Head of the Department:**

  
**Dr.D.RAVIKANTH, M.E, Ph.D**  
Professor and HOD,  
Department of M.E

**Date:**

  
**Internal Examiner:**

  
**External Examiner:**

# K.S.R.M COLLEGE OF ENGINEERING

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuram)

(Accredited by NAAC, of UGC, Bangalore)

(An ISO 9001:2015 Certified Institution)

KADAPA – 516003 (A.P)

DEPARTMENT OF MECHANICAL ENGINEERING



## CERTIFICATE

This is to certify that project report entitled "GO KART ELECTRIC CAR USING PVC PIPES" is bonafide work done by

V. Guru Swamy	(169Y5A0325)
S. Sudeep Kumar Reddy	(169Y5A0321)
R. Vikas	(169Y5A0319)
V. Lakshmi Sai Reddy	(159Y1A03E6)
T. Manoj Kumar	(159Y1A03D7)
V. Devendra Kumar	(159Y1A03E4)

for the partial fulfilment of the requirement for the award of the degree of "BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING" of K.S.R.M College of Engineering (Autonomous) under my supervision and guidance. During the academic year 2018 – 2019.

UNDER THE GUIDANCE OF  
Dr. B. SUDARSHAN  
Associate professor  
Department of Mechanical

HEAD OF THE DEPARTMENT  
Dr. D. RAVI KANTH M. E., Ph.D.,  
Professor & HOD  
Department of Mechanical

  
Internal Examiner  
08/03/19  
External Examiner  
08/03/19



## K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS)

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(An ISO 9001:2000 Certified Institution)

KADAPA – 516003(A.P)


(2018-2019)

### DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This Is to certify that Project report entitled "FABRICATION AND MODELLING OF INSIDE PIPE INSPECTION ROBOT" Is Bonafide record of project work done by T. KIRAN KUMAR REDDY (159Y1A03C8), K. NAGENDRA (169Y5A0311), V. RAJAMOHAN (159Y1A03E5), M.HARINATH REDDY (169Y5A0314), V. SANDEEP KUMAR REDDY (159Y1A03E7), N.SREEKANTH (169Y5A0316) in partial fulfilment of the requirements for the award of degree of "BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING" during the year 2018-2019.

  
Project Guide: 20/4/19

U. PRADEEP KUMAR, M.Tech.,

Assistant Professor

DEPT. OF MECHANICAL ENGINEERING

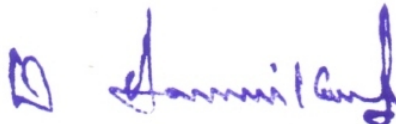
  
Head of the Department:

Dr. D. RAVIKANTH, M.Tech, Ph.D.

Professor & HOD

DEPT. OF MECHANICAL ENGINEERING

DATE:



INTERNAL EXAMINER

EXTERNAL EXAMINER

**KANDULA SREENIVASA REDDY MEMORIAL COLLEGE OF  
ENGINEERING**

**(AUTONOMOUS)**

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

(Accredited by National Board of Accreditation (NBA) , New Delhi)

(An ISO 9001:2000 Certified Institution)

KADAPA – 516003(A.P)

(2018-2019)

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project reported entitled “**AUTOMATIC DISC BRAKING SYSTEM**” is a bonafide record of project work done by

Y. KAMESWARA REDDY(159Y1A03E9)

A. SUNIL KUMAR(169Y5A0301)

T.SREENIVASULU(159Y1A03C9)

U.PRAKASH (159Y1A03E1)

T. VENKATA SAI(159Y1A03D3)

V. VAMSI KUMAR(159Y1A03E2)

In partial fulfillment of the requirements for the Award of the DEGREE of

**BACHELOR OF TECHNOLOGY**

**IN**

**MECHANICAL ENGINEERING**

Project Guide:

Sri C.Nagaraja, M.Tech  
Associate Professor  
Department Of M.E

Head of the Department:

Dr.D.RAVIKANTH,M.E,Ph.D  
Professor and HOD,  
Department Of M.E

Date:

Internal Examiner:

External Examiner:



## KSRM COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to J.N.T.U ANANTAPUR)

(Accredited by National Board of Accreditation (NBA), New Delhi)

(An ISO 9001:2000 certified institution)

KADAPA - 516 003 (A.P.)

2018 - 2019

### DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the project work entitled "PERFORMANCE CHARACTERISTICS OF FOUR STROKE SINGLE CYLINDER DIESEL ENGINE FUELED WITHDIESEL BLENDS" was done by the following students B. Tech Mechanical Engineering final year students of K.S.R.M College of Engineering , 1.B.Bhargava Kumar (159Y1A0326) 2.B.Rajkumar Naik (159Y1A0327) 3.B.Harish(159Y1A0318) 4.G.SaiMohan(159Y1A0347) 5.I.Tharun Goud (159Y1A0356)6.J.V.Manudatha(159Y1A0357)7.Paul Jonathan (149Y1A03A2) from 19-02-2019 to 20-02-2019 at our Institution. In partial fulfillment of the requirement for the award of the degree of Mechanical Engineering during year 2018-2019.

P. Sreenivas

PROJECT GUIDE:

SRI P.SREENIVAS, M.Tech

Assistant professor,

Dept of Mechanical Engineering,

KSRM College of Egg. Kadapa.

Dr. D. Ravi Kanth

HEAD OF THE DEPARTMENT:

Dr.D.RAVI KANTH, M.Tech, Ph.D.

Professor &HOD,

Dept of Mechanical Engineering,

K.S.R.M. College of Egg. Kadapa.

K. R. S. S. S. S.

DATE:

INTERNAL EXAMINER

EXTERNAL EXAMINER

**K.S.R.M COLLEGE OF ENGINEERING(Autonomous)**

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)

(Accredited by NAAC, An ISO 9001:2015 Certified Institution)

KADAPA – 516 003 (A.P.)

2018- 2019

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project report entitled **“FINITE ELEMENT ANALYSIS AND EXPERIMENTAL EVALUATION OF BONDED, RIVETED AND HYBRID JOINTS IN GLASS FIBRE EPOXY COMPOSITE LAMINATE IN AIRCRAFT STRUCTURE”** is bonafied work carried out by

G.V.SAINATH REDDY	(159Y1A0352)
G.NARASIMHA REDDY	(159Y1A0349)
C.MANOJ KUMAR REDDY	(159Y1A0334)
B.RAJESH REDDY	(159Y1A0316)
C.MD.SHAKEEL	(159Y1A0329)
N.TEJASWINI (W)	(159Y1A0387)

Department of Mechanical Engineering, K.S.R.M College of Engineering, Kadapa and is submitted to J.N.T.U-A in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Mechanical Engineering.

Project Guide:

Head of the Department:

Dr.V.S.S.MURTHY,M.Tech,Ph.D,  
Professor & Principal,  
Department of M.E,  
K.S.R.M.C.E., Kadapa.

Dr.RAVIKANTH,Ph.D,  
Professor & HOD,  
Department of M.E,  
K.S.R.M.C.E., Kadapa.

*K. R. S. Murthy*

Date:

Internal Examiner

External Examiner



## CERTIFICATE

This is to certify that the project report entitled “SOLAR THERMAL REFRIGERATOR WITHOUT COMPRESSOR” is bonafied work carried out by

**A. VAMSI**

**(159Y1A0301)**

**D. POOJITHA**

**(159Y1A0337)**

**A. VENU GOPAL REDDY**

**(159Y1A0307)**

**D. KALYAN KUMAR**

**(159Y1A0340)**

**B. VENKATA LEELANATH**

**(159Y1A0317)**

**S. KALYAN KUMAR**

**(149Y1A03C2)**

In partial fulfillment of the requirements for the award of

**BACHELOR OF TECHNOLOGY**

**IN**

**MECHANICAL ENGINEERING**

**During the year**

**2018-2019**

**Project Guide:**



**Dr. K. RAJAGOPAL, M. Tech, P.hD**

**Professor**

**Department of Mechanical Engineering**

**Head of the Department:**



**Dr. D. RAVIKANTH, M. Tech, P.hD**

**Professor and HOD,**

**Department of Mechanical Engineering**

**Date:**



**Internal Examiner**

**External Examiner**

**K.S.R.M COLLEGE OF ENGINEERING (Autonomous)**  
(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)  
(Accredited by NAAC, An ISO 9001:2015 Certified Institution)  
KADAPA - 516 003 (A.P.)

2018- 2019

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project report entitled "**WIRELESS CONTROLLED ROCKER BOGIE WITH FIRING ARRANGEMENT**" is bonafied work carried out by

AMBATIANIL KUMAR	(159Y1A0308)
D.MAHENDRA REDDY	(159Y1A0335)
G.C.SIVANANDA REDDY	(159Y1A0354)
A. VENKATA SIVA REDDY	(159Y1A0311)
B. VENKATA MADHU	(159Y1A0319)
U. MALLIKARJUNA	(149Y1A03D4)

Department of Mechanical Engineering, K.S.R.M College of Engineering, Kadapa and is submitted to J.N.T.U-A in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Mechanical Engineering.

**Project Guide:**

Dr.K . RAJAGOPAL, Ph.D,  
Department of M.E,  
K.S.R.M.C.E., Kadapa.

**Head of the Department:**

Dr.D.RAVIKANTH, Ph.D,  
professor & HOD  
Department of M.E,  
K.S.R.M.C.E., Kadapa.

Date:

Internal Examiner

External Examiner



# K.S.R.M COLLEGE OF ENGINEERING

(AUTONOMOUS)

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(Accredited by NAAC, of UGC, Bangalore)

(An ISO 9001:2015 Certified Institution)

KADAPA – 516003 (A.P)

DEPARTMENT OF MECHANICAL ENGINEERING



## CERTIFICATE

This is to certify that project report entitled **"FABRICATION OF ROAD POWER GENERATION BY USING RACK AND PINION METHOD"** is bonafide work done by

Subhajith Roy	(159Y1A03C4)
P. Bharath kumar	(159Y1A0390)
K. Hari Haranadha Reddy	(159Y1A0368)
M. Sree hari	(159Y1A0382)
K. Manoj kumar	(159Y1A0361)
K. Anjineyulu	(159Y1A0373)
K. Sathya Sriman Narayana	(159Y1A0366)

for the partial fulfilment of the requirement for the award of the degree of **"BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING"** of K.S.R.M College of Engineering (Autonomous) under my supervision and guidance. During the academic year 2018 – 2019.

*Chaitanyakanth*  
\_\_\_\_\_  
UNDER THE GUIDENCE OF  
P.K. Chaitanyakanth Reddy, M.Tech.,  
Assistant Professor  
Department of Mechanical

*D. Ravi Kanth*  
\_\_\_\_\_  
HEAD OF THE DEPARTMENT  
Dr. D. Ravi Kanth M. E., Ph.D.,  
Professor & HOD  
Department of Mechanical

Date: \_\_\_\_\_

*K. R. Sonal*  
Internal examiner

External Examiner

# K.S.R.M. College of Engineering

## (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to J.N.T. University, Ananthapuramu)

(Accredited by NAAC, An ISO 9001:2015 Certified Institution)

KADAPA – 516 003 (A.P.)

2018- 2019

### DEPARTMENT OF MECHANICAL ENGINEERING




### CERTIFICATE

*This is to certify that the project report entitled “A PROTOTYPE OF SOLAR E-BIKE” is bonafied work carried out by*

G.SRINIVASULU	(159Y1A0351)
A.MAHABOOB BASHA	(159Y1A0305)
B.SHYAM PRASAD	(159Y1A0321)
C.NARENDRA	(159Y1A0331)
A. HARI KRISHNA	(159Y1A0303)
A. PRANUSH	(159Y1A0312)


*Department of Mechanical Engineering, K.S.R.M College of Engineering, Kadapa and is submitted to J.N.T. University in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Mechanical Engineering.*

#### Project Guide:

  
Sri T.V.V.S.N.MURTHI, M.E  
Associate professor  
Department of mechanical,  
K.S.R.M.C.E., Kadapa.

  
Internal Examiner

#### Head of the Department:

  
Dr. RAVIKANTH,  
Professor & HOD,  
Department of Mechanical.,  
K.S.R.M.C.E., Kadapa.

External Examiner



# K.S.R.M. College of Engineering

## (AUTONOMOUS)

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KADAPA – 516 003 (A.P.)

2018- 2019

### DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

*This is to certify that the project report entitled “MULTI-PURPOSE MACHINE” is bonafied work carried out by*

C. HARI CHANDANA (159Y1A0333)

C. MANOJ KUMAR (159Y1A0330)

A.VISHNU VARDHAN REDDY(159Y1A0304)

G. POORNA ANJAN SAI (159Y1A0345)

G. NIKHIL CHAND (159Y1A0350)

G.C. NEELA MANIKANTA (159Y1A0353)

T. NAGASURENDRA (149Y1A03D0)

*Department of Mechanical Engineering, K.S.R.M College of Engineering, Kadapa and is submitted to J.N.T. University in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Mechanical Engineering.*

  
**Project Guide:**

S MALLIKARJUNA REDDY, M.Tech  
Designation:- Asst. Professor  
Department of mechanical,  
K.S.R.M.C.E., Kadapa.

  
Internal Examiner

  
**Head of the Department:**

Dr. RAVIKANTH, M.E. phd.  
Professor & HOD,  
Department of Mechanical.,  
K.S.R.M.C.E., Kadapa.

External Examiner

# K.S.R.M. College of Engineering (AUTONOMOUS)

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(Accredited by NAAC, An ISO 9001:2015 Certified Institution)

KADAPA – 516 003 (A.P.)

2018- 2019

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

*This is to certify that the project report entitled “FABRICATION OF AUTOMATED DRAIN CLENGING SYSTEM” is bonafied work carried out by*

B.SATEESH	(159Y1A0314)
E. NAVEEN KUMAR	(159Y1A0343)
B. NIRANJAN	(159Y1A0322)
G. MADHAVA REDDY	(159Y1A0346)
B. DATHA TREYA	(159Y1A0324)
C. HEMANTH KUMAR	(149Y1A0321)

*Department of Mechanical Engineering, K.S.R.M College of Engineering, Kadapa and is submitted to J.N.T. University in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Mechanical Engineering.*

Project Guide:

**K. SUDARSHAN KUMAR,**  
Assistant Professor  
Department of mechanical,  
K.S.R.M.C.E., Kadapa.

Internal Examiner

Head of the Department:

**Dr. RAVIKANTH,**  
Professor & HOD,  
Department of Mechanical.,  
K.S.R.M.C.E., Kadapa.

External Examiner



# K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA

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

(Accredited by NAAC & NBA, New Delhi)

(An ISO 1900:2000 Certified Institution)

KADAPA-516 003 (A.P)

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

*This is to certify that project report entitled "EXPERIMENTAL INVESTIGATION ON  
FOUR STROKE DIESEL ENGINEBY USING WATERMELON SEED OIL AS METHYL  
ESTER AS BIO-DIESEL" is bonafied work done by*

**A.SIVA KUMAR REDDY (159Y1A0309)**

E.SAI PRAKASH REDDY	(159Y1A0342)
C.DURGA REVANTH REDDY	(159Y1A0328)
G HEMARAM KUMAR	(159Y1A0355)
B.PAVAN KUMAR	(159Y1A0323)
A.SESHENDRANATH	(159Y1A0310)

**For Partial Fulfillment of the requirement for the Award of the Degree of**

**"BACHELOR OF TECHNOLOGY" IN "MECHANICAL ENGINEERING"**

*Of the JNTU Anantapuramu under my supervision and guidance During the  
academic year 2018-2019*

Project Guide:

*[Signature]*  
20/4/19

**Sri.B.SRIHARI** M.Tech.,

Assistant Professor

Department of mechanical engg.,

Head of the Department

*[Signature]*  
**Dr.D.Ravikanth** M.tech., Ph.D.,

PROFESSOR & HOD

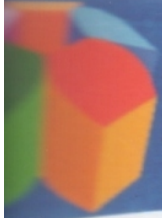
Department of mechanical engg.,

*[Signature]*

DATE

INTERNAL EXAMINER:

EXTERNAL EXAMINER:



**PRISM**

*Project Works Academy*

Santa Monica #2C-1, Ground  
Floor, Hayes Road, Richmond  
Town, Bangalore - 560025

# **CERTIFICATE**

*This is to certify that the project work entitled  
“Experimental Investigations on four stroke  
Diesel Engine by using Watermelon Seed Oil  
Methyl Ester as a Biodiesel” was done by the  
following students*

1. *B.Pavan Kumar* (159Y1A0323)
2. *C. Durga Revanth Reddy* (159Y1A0328)
3. *A.Siva Kumar Reddy* (159Y1A0309)
4. *A. Seshendranath* (159Y1A0310)
5. *E. Sai Prakash Reddy* (159Y1A0342)
6. *G. Hem Ram Kumar* (159Y1A0355)

*B.Tech., Mechanical Engineering final year  
students of KSRM College of Engineering, from  
24-02-2019 to 17-03-2019 at our Institution.*

**Managing Director**  
**Prism Project works Academy**



# K.S.R.M COLLEGE OF ENGINEERING

(AUTONOMOUS)

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KADAPA – 516003 (A.P)

DEPARTMENT OF MECHANICAL ENGINEERING



## CERTIFICATE

This is to certify that project report entitled "GO KART ELECTRIC CAR USING PVC PIPES" is bonafide work done by

V. Guru Swamy	(169Y5A0325)
S. Sudeep Kumar Reddy	(169Y5A0321)
R. Vikas	(169Y5A0319)
V. Lakshmi Sai Reddy	(159Y1A03E6)
T. Manoj Kumar	(159Y1A03D7)
V. Devendra Kumar	(159Y1A03E4)

for the partial fulfilment of the requirement for the award of the degree of "BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING" of K.S.R.M College of Engineering (Autonomous) under my supervision and guidance. During the academic year 2018 – 2019.

UNDER THE GUIDENCE OF  
Dr. B. SUDARSHAN  
Associate professor  
Department of Mechanical

HEAD OF THE DEPARTMENT  
Dr. D. RAVI KANTH M. E., Ph.D.,  
Professor & HOD  
Department of Mechanical

Date: \_\_\_\_\_

Internal examiner

External Examiner

**KANDULA SREENIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING**

**(AUTONOMOUS)**

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

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(An ISO 9001:2000 Certified Institution)

KADAPA – 516003(A.P)

(2018-2019)



**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**

This is to certify that the Project work entitled “**FABRICATION ON INTELLIGENT BRAKING SYSTEM FOR AUTOMOBILE**” is bonafide record of project work done by

T. SREEKANTH	(159Y1A03D0)
T. SURESH	(169Y5A0323)
D. AKHIL BASHA	(169Y5A0308)
Y. KHAGESHWAR REDDY	(169Y5A0327)
U. SARATH CHANDRA	(159Y1A03E0)
T. SIDDHARTHA	(159Y1A03D6)

In partial fulfillment of the requirements for the Award of the Degree of

**BACHELOR OF TECHNOLOGY  
IN  
MECHANICAL ENGINEERING**

**Project Guide:**

**Sri D. MERWIN RAJESH,** M.Tech.,  
Assistant Professor  
Department of M.E

**Head of the Department:**

**Dr. D. RAVIKANTH,** M.E, Ph.D.,  
Professor and HOD,  
Department of M.E

**Date:**

**Internal Examiner:**

**External Examiner:**