

A STUDY ON
"ORGANIZATION STRUCTURE"
WITH REFERENCE TO
RASHTRIYA ISPAT NIGAM LIMITED ,
VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
A. V. N. Pushpaja
Reg.no.17U41E0001

Under the Esteemed Guidance of
Mr. A. Kiran Kumar
MBA,LLB,PH.D
Senior Assistant Professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi &Affiliated to JNTU, Kakinada)
NAAC ACCREDITED INSTITUTE
ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : **A.V.N. PUSHPAJA**
Regd./Trainee No : **HR - 1922**
Course : **M.B.A**
Name of the Institute : **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, VISAKHAPATNAM**
Project Topic : **A Project Report on "ORGANIZATIONAL STRUCTURE" IN RINL VSP**
Period of Training : **26/06/2018 TO 21/07/2018**

His/Her conduct during the period of training was found to be

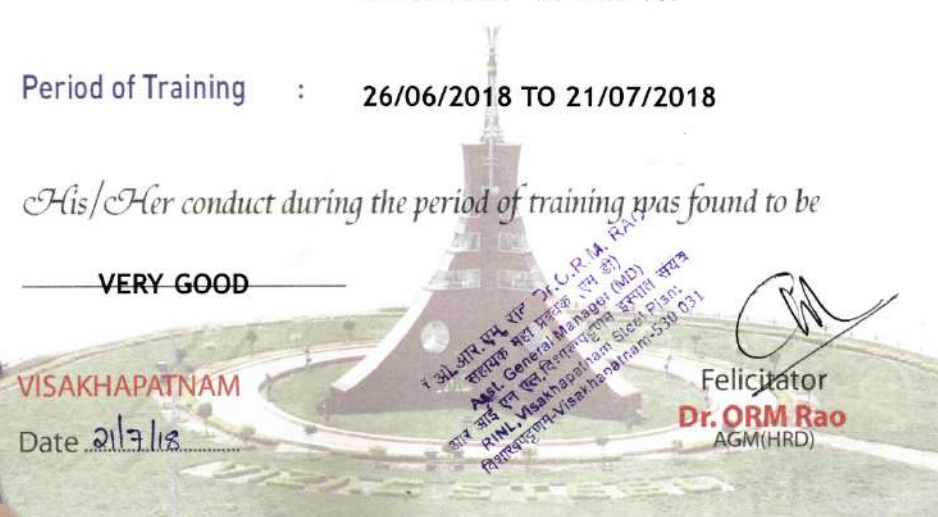
VERY GOOD

VISAKHAPATNAM

Date **21/7/18**

Dr. C. R. M. Rao
Asst. General Manager (AGM)
RINL, Visakhapatnam Steel Plant
Phone: 089-2530 031

Felicitor
Dr. ORM Rao
AGM(HRD)



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled " Organization Structure" with reference Rashtriya Ispat Nigam Limited is a bonafide work carried out by A. V. N. Pushpaja (17U41E0001), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of Mr. A. Kiran Kumar , **Senior Assistant Professor** during the academic year 2017-19. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mr. A. Kiran Kumar
Senior Assistant Professor
PROJECT GUIDE

Dr . RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“TRAINING AND DEVELOPMENT”
WITH REFERENCE TO
RASHTRIYA ISPACT NIGAM LIMITED
VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

A. LOVARAJU

Reg.no.17U41E0002

Under the Esteemed Guidance of

Dr. G. SANTHOSHI KUMARI

MBA, Ph.D

ASSISTANT PROFESSOR

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi &Affiliated to JNTU, Kakinada)

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

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(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified

Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled "TRAINING AND DEVELOPMENT" with reference to VISAKHAPATNAM STEEL PLANT is a bonafide work carried out by A. LOVARAJU (17U41E0001), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. G. SANTHOSHI KUMARI ASSISTANT PROFESSOR** during the academic year 2017-19. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. G. SANTHOSHI KUMARI

ASST. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR & HOD

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



*This is to certify that the following student has undergone Pro
Work / Training at Visakhapatnam Steel Plant*

Name of the Student : A. LOVA RAJU

Regd./Trainee No : HR-1962

Course : M.B.A

Name of the Institute : DIET ENGINEERING & TECHNOLOGY
COLLEGE, ANAKAPALLI.

Project Topic : A STUDY ON "TRAINING AND
DEVELOPMENT" IN RINL.

Period of Training : 2/07/2018 TO 28/07/2018

His/Her conduct during the period of training was found

VERY GOOD

VISAKHAPATNAM

Date 28-07-2018

Fel
Dr. O

A STUDY ON
“INVENTORY MANAGEMENT”
WITH REFERENCE TO
THE CHODAVARAM CO-OPERATIVE SUGARS Ltd. GOVADA, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

B.SAROJINI

Reg.no.17U41E0003

Under the Esteemed Guidance of

Dr. P.B. RAMA KUMAR

M.Com, MBA, DEE, PGDCA, Ph.D

Professor & HOD

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
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NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

TRN No. AAAAT 4370 N
GSTIN: 37AAAAT879N1ZK

Email id: info@chodavaram.coop
Gram: COOP SUGARS GOVADA-531023
Phone: STD 08954 245140240100 (Office)
M.D's 245127 100 245038 (R)
Fax No. 245038
President's Office 245100

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED
No. B.1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Pky. Stn. Visakhapatnam Dist., (A.P.)

SRI K. BHASKAR, I.A.S
Dist. Collector / P.I.C

SRI K.R. VICTOR RAJU
MANAGING DIRECTOR

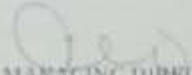
Ref No: **RC.AD/6/2018-19**

24-03-2019
Date

CERTIFICATE

This is to certify that Kum. B.Sarojini, a student of M.B.A from Dadi Institute of Engg & Technology, Anakapalli, has carried out her project work on the subject of "INVENTORY MANAGEMENT" for a period of 45 days from 26-06-2018 to 10-08-2018 in this Organization.

During the period of project work her conduct and character are found to be satisfactory.


MANAGING DIRECTOR

The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531023, Visakh Dist.
Chodavaram Mandal, Andhra Pradesh



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “INVENTORY MANAGEMENT” with reference to **THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED**, Govada, Visakhapatnam is a bonafide work carried out by B.SAROJINI (17U41E0003), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. P.B. Rama Kumar, Professor & HOD** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P.B

PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“WORKING CAPITAL MANAGEMENT”

WITH REFERENCE TO

FACOR ALLOYS LIMITED SRIRAMNAGAR, VIJAYANAGARAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
BH. SATYA SRINIVAS
Reg.no.17U41E0004

Under the Esteemed Guidance of
Dr. B. OMNAMAHSIVAYA, MBA PhD

ASSO PROFESSOR
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.2019



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “WORKING CAPITAL MANAGEMENT -” with reference to FACOR ALLOYS LTD is a bonafide work carried out by BH. SATYA SRINIVAS (17U41E0004), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. B. OMNAMASHIVAYA** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. OMNAMASIVAYA

ASSOC. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



FACORALLOYS LIMITED

1,A.P.,India.

Reg Office & Works: SHREERAMNAGAR,535101,Dist Vizianagaran

Phone: +91 8952 282029, 282038,282456 Fax:+91 8952282188

Date :14-08-2018

CERTIFICATE

This is to certify that **Mr.BH.SATYA SRINIVAS** Regd.no.17U41E0004 MBA(FIN) student of **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY..** Completed his project work on **“WORKING CAPITAL MANAGEMENT”** with reference to **FACOR ALLOYS LTD SHREERAMNAGAR,** for a period of five weeks from **01-07-2018** to **04-08-2018** as a part of curriculum requirement.

During the period he has shown keen interest in learning various aspects related to his project work. His performance and conduct the above period is good. We wish his all success in future endeavors.

K.V.S.N. MURTHY
General Manager
FACOR LTD.

BEST REGARDS TO

Manager-Finance

A STUDY ON
“EMPLOYEE WELFARE”
WITH REFERENCE TO
CHODAVARAM CO-OPERATIVE SUGARS Ltd,
GOVADA, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, in
partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

BUDDHA RESHMA

Reg.no:17U41E0005

Under the Esteemed Guidance of

Mrs. K.CHANDRIKA

Assistant Professor

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “**EMPLOYEE WELFARE**” with reference to “**CHODAVARAM CO-OPERATIVE SUGARS LIMITED**” is a bonafide work carried out by **BUDDHA RESHMA (17U41E0005)**, in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mrs. K. CHANDRIKA** ,Assistant Professor during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs. K. CHANDRIKA
ASSISTANT PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

PAN No. AAAAT 4375 N
GSTIN : 37AAAAAT4375N1ZX

Email id : ccslgovada@yahoo.com
Grams : COOPSUGARS, GOVADA-531023.
Phone : STD 08934 : 245140/245158 (Office)
M.D.'s : 245127 (O), 245035 (R)
Fax No. : 245038
President's Office : 245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED

No B. 1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly. Stn. Visakhapatnam Dist., (A.P.)

SRI PRAVIN KUMAR I.A.S

SRI K.R.VICTOR RAJU

CHAIRMAN DIST.COLLECTOR/PERSON IN-CHARGE MANAGING DIRECTOR

Ref No. RC.AD/6/2018-19

18-09-2018
Date :

CERTIFICATE

This is to certify that Kum. **B.Reshma** , a student of MBA from Dadi Institute Engineering & Technology, Anakapalli, Visakhapatnam, has carried out her project work on the subject of "**HR - EMPLOYEE WELFARE** " for a period of 45 days from 01-05-2018 to 15-06-2018 in this Organization.

During the period of project work her conduct and character are found to be satisfactory.


MANAGING DIRECTOR

*The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531 023, Visakhapatnam*

A STUDY ON
"PERFORMANCE APPRAISAL SYSTEM"
WITH REFERENCE TO
**VISAKHAPATNAM STEEL PLANT,
VISAKHAPATNAM**

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
Ch. VINEETHA
Reg.no.17U41E0006

Under the Esteemed Guidance of
Mrs. K. CHANDRIKA
MBA
Assistant Professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT

Certificate

This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : CHEKKA VINEETHA
Regd./Trainee No : HR - 1924
Course : M.B.A
Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, VISAKHAPATNAM.
Project Topic : A Report on "PERFORMANCE APPRAISAL" IN RINL VSP
Period of Training : 26/06/2018 TO 21/07/2018

His/Her conduct during the period of training was found to be

VERY GOOD

VISAKHAPATNAM

Date 21/07/2018

डॉ.ओ.आर.एम. राव Dr. O.R.M. Rao
सहायक महा प्रबंधक (एम डी)
Asst. General Manager (MD)
आर आई एन एल, विशाखपट्टणम इस्पात प्लांट
RINL, Visakhapatnam Steel Plant
विशाखपट्टणम-Visakhapatnam-530 031

Felicitor
Dr. ORM Rao
AGM(HRD)



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.TE & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "PERFORMANCE APPRAISAL SYSTEM" with reference to VISAKHAPATNAM STEEL PLANT is a bonafide work carried out by

Ch. VINEETHA (17U41E0006), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of Mrs. K.CHANDRIKA, **Assistant Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs. K. CHANDRIKA

ASSISTANT PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“EMPLOYEE WELFARE”
WITH REFERENCE TO
COROMANDEL INTERNATIONAL LIMITED,
VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
D. RAMYA JYOTHI
Reg.no.17U41E0007

Under the Esteemed Guidance of
MRS. K. CHANDRIKA
MBA
ASSISTANT PROFESSOR
Department of Management Studies



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ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

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NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “EMPLYEE WELFARE” with reference to COROMANDEL INTERNATIONAL LIMITED is a bonafide work carried out by

D. RAMYA JYOTHI (17U41E0007), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **MRS.K.CHANDRIKA,MBA, Assistant Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

MRS.K. CHANDRIKA

MBA

ASSISTANT PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER


Date: August 4, 2018

CERTIFICATE

This is to certify that **Ms.Dandu Ramya Jyothi** (MBA-Human Resources) student of Dadi Institute of Engineering & Technology, Anakapalle, Visakhapatnam, A.P, Pin No.: 531002, India. Has pursued her Internship on **Employee Welfare** in our Organization between 05-Jul-2018 to 04-Aug-2018.

During the period she was found very hard working and dedicated towards her work.

For Coromandel International Ltd.,


Anita Patnaik.V
Dy. Manager - L&D

Registration No.: 212/2018-19

A STUDY ON
Financial Statements Analysis
WITH REFERENCE TO
National Thermal Power Corporation
A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
D.PRAVALI
Reg.no.17U41E0008

Under the Esteemed Guidance of
Dr. P.B. RAM KUMAR
M.Com, MBA, DEE, PGDCA, Ph.D
Professor & HOD
Department of Management Studies



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(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



NTPC LIMITED
Simhadri Super Thermal Power Station
Regional Learning Institute
Visakhapatnam - 531 020

सिम्हाद्री
SIMHADRI

Ref. No. :SMPP/RLI/

CERTIFICATE

Date : 11-08-18

This is to Certify that Mr. / Mrs / Ms..... DUNGALA PRAVALI
of..... DADI INSTITUTE OF ENGG. & TECHNOLOGY
affiliated to..... JNTU..... University has undertaken
In-Plant Training / Study / Project Work on..... FINANCIAL STATEMENTS OF NTPC
.....at NTPC Regional Learning Institute, Visakhapatnam
From..... 28-06-18..... to..... 11-08-18..... in partial fulfillment of..... MBA (FINANCE)

He / She has completed the ~~in~~plant Training / Study / Project Work satisfactorily and submitted
the report to RLI. His / Her conduct was..... Satisfactory..... during the above period.

We wish him/her success in future endeavor.



K. Krishna Murthy 11/8/18
Authorised Signatory with Seal
K. Krishna Murthy

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “Financial Statements Analysis” with reference to National Thermal Power plant is a bonafide work carried out by D.Pravali (17U41E0008), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr.P.B. Rama Kumar, Professor &HOD** during the academic year 2017-19. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“CORPORATE ACCOUNTING SYSTEM”
WITH REFERENCE TO

VISHAKHAPATNAM STEEL PLANT

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
G. ANNAPOORNA
Reg.no.17U41E0009

Under the Esteemed Guidance of
Dr. B. OMNAMASIVAYA
ASSOC. PROFESSOR
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)
NAAC ACCREDITED INSTITUTE
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NH-5, Anakapalle-531002, Visakhapatnam, A.P.
2019



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "CORPORATE ACCOUNTING SYSTEM" with reference to VISHAKHAPATNAM STEEL PLANT is a bonfire work carried out by G.ANNAPOORNA (17U41E0009), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. B. OM NAMASHIYAVA** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. OMNAMASIVAYA
ASSOC. PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : G.ANNAPOORNA
Regd./Trainee No : FIN-1983
Course : M.B.A
Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI.
Project Topic : A STUDY ON "CORPORATE ACCOUNTING SYSTEM" IN RINL.
Period of Training : 02/07/2018 TO 28/07/2018

His/Her conduct during the period of training was found to be

GOOD

VISAKHAPATNAM

Dr. C.R.M. RAO
Asst. General Manager (MD)
RINL, Visakhapatnam
Phone: 30 031

Felicitor
Dr. ORM Rao
AGM(HRD)

A STUDY ON

“FINANCAL STATEMENT ANALYSIS”

WITH REFERENCE TO
CHODAVARAM CO-OPERATIVE SUGAR Ltd. GOVADA, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
K.BALA MURALI
Reg.no.17U41E0010

Under the Esteemed Guidance of
Dr. B. OM NAMASHIVAYA
Associate Professor, Ph.D,
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



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NAAC ACCREDITED INSTITUTE

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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “**A PROJECT REPORT ON FINANCIAL STATEMENT ANALYSES**” with reference to **CHODAVARAM CO-PERATIVE SUGARS LIMITED, GOVADA** is a bonafide work carried out by **K.BALA MURALI (17U41E0010)**, in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. OMNAMASIVAYA**, Associate Professor & HOD during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. OMNAMASIVAYA
ASSOC. PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

DECLARATION

I hereby declare that the project titled “**A PROJECT REPORT ON FINANCAL STATEMENT ANALYSES**” with reference to **CHODAVARAM CO-PERATIVE SUGARS LIMITED, GOVADA** has been carried out by me in partial fulfilment for the award of Degree of **MASTER OF BUSINESSADMINISTRATION** from Jawaharlal Nehru Technological University, Kakinada, is a record of bonafide work done by me.

Date :
Place :

K.BALA MURALI
(17U41E0010)

A STUDY ON
“Cost Volume Profit Analysis”
WITH REFERENCE TO
**CHODAVARAM CO-OPERATIVE SUGAR Ltd. GOVADA,
VISAKHAPATNAM**

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
JAMPA PRIYANKA
Reg.no.17U41E0011

Under the Esteemed Guidance of
Dr. P.B. RAMA KUMAR
M.Com, MBA, DEE, PGDCA, Ph.D
Professor & HOD
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

PAN No. AAAAT 4375 N
GSTIN : 37AAAAT4375N1ZX

Email id :ccslgovada@yahoo.com
Grams : COOPSUGARS, GOVADA-531023.
Phone : STD 08934 : 245140/245158 (Office)
M.D's : 245127 (O), 245035 (R)
Fax No. : 245038
President's Office : 245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED
No. B.1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly. Stn. Visakhapatnam Dist., (A.P.)

SRI K.BHASKAR, I.A.S
Dist.Collector / P.I.C

SRI K.R.VICTOR RAJU
MANAGING DIRECTOR

Ref No : RC.AD/6/2018-19

Date 25-03-2019

CERTIFICATE

This is to certify that Kum. J.Priyanka , a student of M.B.A from Dadi Institute of Engineering & Technology, Anakapalli, Visakhapatnam, has carried out her project work on the subject of " CVP ANALYSIS " for a period of 45 weeks from 10-05-2018 to 25-06-2018 in this Organization.

During the period of project work her conduct and character are found to be satisfactory.


MANAGING DIRECTOR

*The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531 023, Visakha Dist.
Chodavaram Mandal, Andhra Pradesh*



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “Cost Volume Profit Analysis ” with reference to Chodavaram Co-Operative Sugars Limited, Govada is a bonafide work carried Jampa Priyanka (17U41E0011), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. P.B. Rama Kumar, Professor & HOD** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. P. B. Rama Kumar

M.com, MBA, Ph.D

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“WORKING CAPITAL MANAGEMENT”
WITH REFERENCE TO
CHODAVARAM CO-OPERATIVE SUGAR Ltd. GOVADA, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

K.NEERAJA

Reg.no.17U41E0012

Under the Esteemed Guidance of

Dr. P.B. RAMA KUMAR

M.Com, MBA, DEE, PGDCA, Ph.D

Professor & HOD

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “WORKING CAPITAL MANAGEMENT ” with reference to VISAKHAPATNAM STEEL PLANT is a bonafide work carried out by K.NEERAJA. (17U41E0012), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. P.B. Rama Kumar, Professor & HOD** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P.B

PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



DECLARATION

I hereby declare that the project titled "working capital management " with reference to working capital management has been carried out by me in partial fulfilment for

A STUDY ON
BUDGET AND BUDGETARY CONTROL
WITH SPECIAL REFERENCE TO
RASHATRIYA ISPAT NIGAM LIMITED, VISAKHAPATNAM



A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, in partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

M. VENKATESH

(Reg.no 17U41E0013)

Under the Esteemed Guidance of

DR PB . RAMKUMAR

MBA,M.COM,DEE,PGDCA,PHD

HEAD AND PROFESSOR

Department of management studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi &Affiliated to JNTU, Kakinada)

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

(2017-2019)



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : MADISA VENKATESH
Regd./Trainee No : FIN - 1940
Course : M.B.A
Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, VISAKHAPATNAM.
Project Topic : A Report on "BUDGET & BUDGETARY CONTROL " IN RINL VSP
Period of Training : 26/06/2018 TO 21/07/2018

His/Her conduct during the period of training was found to be

VERY GOOD

Dr. C.R.M. RAO
Manager, HRD, VSP

A STUDY ON
“PERFORMANCE APPRAISAL SYSTEM”
WITH REFERENCE TO
ABHIJEET FERROTECH LIMITED , ATCHUTAPURAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
M. RAM BABU
Reg.no.17U41E0014

Under the Esteemed Guidance of
Mrs. K. CHANDRIKA
MBA,
ASSISTANT PROFESSOR

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)
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ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle-531002, Visakhapatnam, A.P.
2017-2019



**DADI INSTITUTE OF ENGINEERING
& TECHNOLOGY**

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NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “PERFORMANCE APPRAISAL SYSTEM ” with reference to ABHIJEET FERROTECH LIMITED is a bonafide work carried out by M. RAM BABU (17U41E0001), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mrs. K. CHANDRIKA ,Assistant Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs. K. CHANDRIKA
ASSISTANT PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



ABHIJEET FERRO TECH LIMITED,
ABNS-CO-5015-MK
AP SEZ, ATCHUTAPURAM,
VISAKHAPATANAM-531011
Andrapradesh
PH-9848068154, 0891 240239
www.abhijeet.in,
email.abhijeetferrotech@gmail.com

Date 28/08/2018

CERTIFICATE

This is to certify that **Mr.M.Rambabu** Regd.no.17U41E0014 MBA(HR) student of **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY ,Anakapalli, Vishakapatnam.** Completed his project work on “**PERFORMANCE APPRAISAL SYSTEM** ” with reference to **ABHIJEET FERROTECH LTD** for a period of five weeks from **01-07-2018** to **4-08-2018** as a part of curriculum requirement.

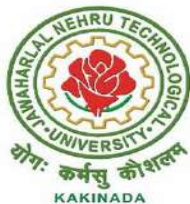
During the period She has shown keen interest in learning various aspects related to her project work. She performance and conduct the above period is good. We wish his all success in future endeavors.


BEST REGARDS TO

Manager-Human Resource

ABHIJEET FERRO TECH LIMITED , ABNS-CO-5015-MK AP SEZ, ATCHUTAPURAM, VISAKHAPATANAM-
531011 Andrapradesh PH-9848068154, 0891240239, www.abhijeet.in
, email.abhijeetferrotech@gmail.com

A STUDY ON
“JOB SATISFICATION”
WITH REFERENCE TO
CHODAVARAM CO-OPERATIVE SUGAR Ltd. GOVADA, VISAKHAPATNAM
A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial
fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
M. BHASKAR
Reg.no.17U41E0015

Under the Esteemed Guidance of
Dr.G.SANTHOSHI KUMARI
MBA
Assistant Professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)
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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “JOB SATISFICATION” with reference to CHODAVARAM CO-OPERATIVE SUGAR LMD, GOVADA is a bonafide work carried out by M.BHASKAR (17U41E00015), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr.G.SANTOSHI KUMARI, ASSISTANT PROFESSOR** during the academic year 2017-19. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr.G.SANTOSHI KUMARI

ASST. PROFESSOR

PROJECT GUIDE

Dr.RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

PAN No. AAAAT 4375 N
GSTIN : 37AAAAT4375N1ZX

Email id : ccslgovada@yahoo.com
Grams : COOPSUGARS, GOVADA-531023.
Phone : STD 08934 : 245140/245158 (Office)
M.D.'s : 245127 (O), 245035 (R)
Fax No. : 245038
President's Office : 245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED
No B. 1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly. Stn. Visakhapatnam Dist., (A.P.)

SRI PRAVIN KUMAR I.A.S

SRI K.R.VICTOR RAJU

CHAIRMAN

DIST.COLLECTOR/PERSON IN-CHARGE

MANAGING DIRECTOR

Ref No:.....
RC.AD/6/2018-19

Date :
18-09-2018

CERTIFICATE

This is to certify that Mr. M. Bhaskar, a student of MBA from Dadi Institute Engineering & Technology, Anakapalli, Visakhapatnam, has carried out his project work on the subject of "JOB SATISFACTION" for a period of 45 days from 26-06-2018 to 10-08-2018 in this Organization.

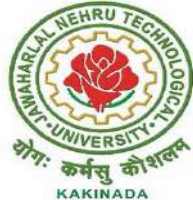
During the period of project work his conduct and character are found to be satisfactory.


MANAGING DIRECTOR

*The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531 023, Visakha Dist,
Chodavaram Mandal, Andhra Pradesh*

A STUDY ON
“ INVENTORY MANAGEMENT ”
WITH REFERENCE TO
RASHTRIYA ISPAT NIGAM LIMITED,VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
MATHI BHARGAVI SAI HINDHUJA
Reg.no.17U41E0016

Under the Esteemed Guidance of
Dr. B. OMNAMASHIVAYA
MBA, Ph.D
Associate Professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
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ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

Rashtriya Ispat Nigam Limited



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : M. BHARGAVI SAI HINDUJA

Regd./Trainee No : FIN - 1947

Course : *M* : M.B.A

Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, VISAKHAPATNAM

Project Topic : A Report on "INVENTORY MANAGEMENT" IN RINL VSP

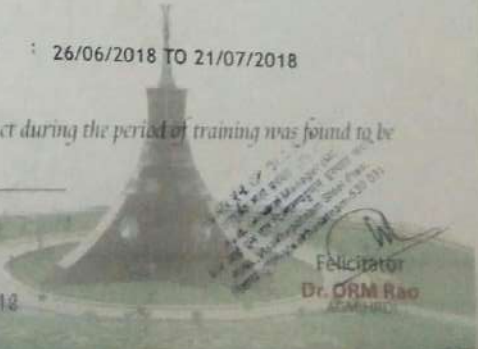
Period of Training : 26/06/2018 TO 21/07/2018

His/Her conduct during the period of training was found to be

VERY GOOD

VISAKHAPATNAM

Date 21/07/2018



Felicitor
Dr. ORM Rao

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

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NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “inventory management” with reference to "RASTHTRIYA ISPAT NIGAM LIMITED ,VISAKHAPATNAM" is a bonafide work carried MATHI BHARGAVI SAI HINDHUJA ,(17U41E0016), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. B. Omnamashivaya, Associate Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. B. OMNAMASHIVAYA

ASSOC. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A Study on
CASH FLOW STATEMENT
With special reference to
“THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED”
A MAJOR Project report submitted to the JNTU, Kakinada in partial fulfillment for the award of the
Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

M.LAKSHMANA RAO

(Reg. No. 17U41E0017)

Under the Esteemed guidance of

Dr.P .B. RAM KUMAR

MBA.M.COM,DEE,PGDCA, Ph.D

HEAD AND PROFESSOR

DEPARTMENT OF MANAGEMENT STUDIES



DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to J.N.T.U, Kakinada)

NAAC Accredited Institute

(As ISO 9001-2008 Certified Institution)

ANAKAPALLE-531002

(2017-2019)

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Affiliated to JNTUK, Kakinada)

NAAC Accredited Institute

An ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 Certified Institute.

NH-5, Anakapalle – 531002, Visakhapatnam, A.P.



CERTIFICATE

This is to certify that the project work entitled “**A Study on Cash flow Statement**” by M.LAKSHMANA RAO, Reg. No.17U41E0017 in partial fulfilment for the award of the Degree of **Master of Business Administration** during the Academic year **2017-2019** with special reference to “**THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED**” under the guidance of **DR PB RAMKUMAR HEAD AND PROFESSOR**, Department of Management Studies, Diet Institute, Anakapalle.

Project Guide:

Dr. P. B. RAM KUMAR
MBA, M.COM, DEE ,PGDCA, Ph.D

HEAD AND PROFESSOR

DEPARTMENT OF MBA

Head of the Department
Dr. P. B. RAM KUMAR

PAN No. AAAAT 4375 N
GSTIN : 37AAAAT4375N1ZX

Email id : ccslgovada@yahoo.com
Grams : COOPSUGARS, GOVADA-531023.
Phone : STD 08934 : 245140/245158 (Office)
M.D.'s : 245127 (O), 245035 (R)
Fax No. : 245038
President's Office : 245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED
No B. 1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly. Stn. Visakhapatnam Dist., (A.P.)

SRI PRAVIN KUMAR I.A.S

SRI K.R.VICTOR RAJU

CHAIRMAN DIST.COLLECTOR/PERSON IN-CHARGE **MANAGING DIRECTOR**

RC.AD/6/2018-19
Ref No:.....

12-11-2018
Date :

CERTIFICATE

This is to certify that Mr. M.Lakshmana Rao, a student of MBA from Dadi Institute Engineering & Technology, Anakapalli, Visakhapatnam, has carried out his project work on the subject of "CASH FLOW STATEMENT" for a period of 45 days from 09-07-2018 to 22-08-2018 in this Organization.

During the period of project work his conduct and character are found to be satisfactory.


MANAGING DIRECTOR

*The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531 023, Visakha Dist.
Chodavaram Mandal, Andhra Pradesh.*

A STUDY ON
“RATIO ANALYSIS”

WITH REFERENCE TO
Rashtriya Ispat Nigam Limited (RINL)

A Project report submitted to Jawaharlal Nehru Technological University,
Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION



Submitted by

SREEDEVI MYLAPILLI
Reg.no.17U41E0018

Under the Esteemed Guidance of

Dr. B. OM NAMASHIVAYA
Associate professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
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NAAC ACCREDITED INSTITUTE

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2017-2019



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : M.SREEDEVI
Regd./Trainee No : FIN-1965
Course : M.B.A
Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI.
Project Topic : A STUDY ON "RATIO ANALYSIS" IN RINL.
Period of Training : 02/07/2018 TO 28/07/2018

His/Her conduct during the period of training was found to be

VERY GOOD

VISAKHAPATNAM

Date 28-07-2018



Dr. C. R. M. Rao
Asst. General Manager (HRD)
RINL, Visakhapatnam Steel Plant
Visakhapatnam-530 033

CRM

Felicitator
Dr. ORM Rao
AGM(HRD)



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “**RATIO ANALYSIS**” with reference to “**Rashtriya Ispat Nigam Limited Visakhapatnam**” is a bonafide work carried out by **SREEDEVI MYLAPALLI (17U41E0018)**, in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. B. OM NAMASHIYAVA** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. OMNAMASIVAYA

ASSOC. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“TRAINING AND DEVELOPMENT”
WITH REFERENCE TO
JINDAL STAINLESS STEEL,KOTHAVALASA

A Project report submitted to Jawaharlal Nehru Technological University,
Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
N. YAMUNA
Reg.no.17U41E0019

Under the Esteemed Guidance of
DR. G. SANTHOSHI KUMARI
Ph. D
ASSISTANT PROFESSOR
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)
NAAC ACCREDITED INSTITUTE
ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle-531002, Visakhapatnam, A.P.
2019



JSL/HR/2018

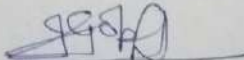
Dt. 10.12.2018

CERTIFICATE

This is to certify that Mr./Miss. N.Yamuna, M.B.A. (2nd Year) bearing PIN 17U41E0019 has completed his/her project work on "Training and Development" in our Organisation M/s JINDAL STAINLESS (HISAR) LIMITED, FAD (Division), Jindal Nagar, Kothavalasa Mandal, Vizianagaram-District, from 15.05.2018 to 28.06.2018 at our HR Department.

We wish his/her all success in his/her future endeavours

For JINDAL STAINLESS (HISAR) LIMITED.,


GOPALA KRISHNA.J
AGM – HR & ADMN.

Jindal Stainless (Hisar) Limited

CIN L27205HR2013PLC049963

Works Ferro Alloys Division Jindal Nagar, Kothavalasa - 535 183, Dist. Vizianagaram
T 91-8966-263254, 327-335 F 91-8966-263326 **Website** www.jindalstainless.com
City Office Jindal Bhavan, 58-17-111, Sanjeevayya Nagar, NAD Kotha Road Jn. Visakhapatnam - 530 009
T 91-891-2574998 F 91-891-2574996 E jindalios@rediffmail.com jindalivs@jindalstainless.com
Corporate Office Jindal Centre, 12, Bhikaiji Cama Place, New Delhi - 110 066, India
Regd. Office O.P. Jindal Marg, Hisar - 125005, Haryana



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

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ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “**TRAINING AND DEVELOPMENT**” with reference to JINDAL STAINLESS STEEL is a bonafide work carried out by **N. YAMUNA (17U41E00019)**, in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **MISS. G. SANTHOSHI KUMARI, MBA, Assistant Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

DR. G. SANTHOSHI KUMARI
ASSISTANT. PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

A Study on
TRAINING AND DEVELOPMENT

With special reference to



A Joint Venture between Granules India Ltd and Ajinomoto OmniChem

A Major Project report submitted to the JNTU, Kakinada in partial fulfillment for
the award of the Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

PENTAKOTA MOULI PRIYANKA

(Reg. No. 17U41E0020)

Under the Esteemed guidance of

Dr. P.B. RAMA KUMAR

M.COM, MBA, PGDCA, DEE, Ph.D

PROFESSOR & HOD

Department of Management Studies



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

Date: 17/10/2018

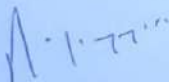
TO WHOM IT MAY CONCERN

This is to certify that Ms. P. Mouli Priyanka, a student of MBA from Dadi Institute of Engineering & Technology (DITE), Visakhapatnam, Andhra Pradesh has successfully completed her internship program in Human Resource Department on the topic 'A Study on Training and Development System in Granules OmniChem Pvt. Ltd.' from 26/06/2018 to 11/08/2018 in our Organization.

During the period of her internship with us she is found punctual, hardworking and inquisitive.

We wish her every success in life.

For Granules OmniChem Pvt. Ltd.


(P.S. Tagore)

Associate Vice President (HR)



GRANULES OMNICHEM PRIVATE LIMITED

Registered Office : H.No. 1-123/MH/201, 2nd Floor, 3rd Block, My Home Hub, Madhapur, Hyderabad 500 081, Telangana, India. ☎ + 91 40667 60000.

Works: Plot Nos. 121 (part) & 122, Ramky Pharma City (I) Ltd. SEZ, Parawada Mandal, Visakhapatnam - 531 019, Andhra Pradesh, India.

☎ +91 08924-236293, 660300, E-mail: info@granulesomnichem.com, www.granulesomnichem.com

CIN No: U24233AP2011PTC076274



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “**TRAINING AND DEVELOPMENT**” with reference to **GRANULES OMNICHEM, Parawada, Visakhapatnam** is a bonafide work carried out by **P.MOULIPRIYANKA (17U41E0020)**, in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. P.B. Rama Kumar, Professor & HOD** during the academic year 2017-19. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMAKUMAR P.B
PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“ INVENTORY MANAGEMENT ”
WITH REFERENCE TO
THANDAVA CO-OPERATIVE SUGARS LIMITED PAYAKARAOPETA

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
P. SIVA KRISHNA
Reg.no.17U41E0021

Under the Esteemed Guidance of
Dr. B. OMNAMASHIVAYA
MBA, Ph.D

Associate Professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

E Mail : thethandavasugarslimited@gmail.com
TIN : 37440214194
A.P.G.S.T. No. VSP/06/6-1009
C.S.T. No. VSP/06/1002

STD : 08854
Office : 253587
M.D. : 254091
M.D.(Res) : 254092

The Thandava Co-operative Sugars Limited, No.C.181

(SUGAR MANUFACTURERS)

PAYAKARAOPETA-531126
TUNI R.S.
Visakhapatnam Dist., A.P.

SRI S.LOVA RAJU, B.A.,
PRESIDENT.

SRI V.S.NAIDU, B.Sc., M.B.A., AVSI(Tech), ASTA,
MANAGING DIRECTOR.

Ref No. Tcs/Admn/Estt/PW/2017-18.

Dt.16.10.2018.

CERTIFICATE

This is to certify that Mr.P.Siva Krishna, Student of M.B.A., from Dadi Institute of Engineering & Technology, Anakapalli, Visakhapatnam District, Andhra Pradesh has successfully completed Project work on the Topic of " INVENTORY MANAGEMENT " as a Part of the Curricular requirement in The Thandava CO-op. Sugars Limited., Payakaraopeta, Visakhapatnam District, Andhra Pradesh from 29.06.2018 to 14.08.2018.

During the above Period, His/Her Conduct and Character are found to be Satisfactory.



[Signature]
MANAGING DIRECTOR.

[Signature]



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “inventory management” with reference to Thanadava co-operative sugars limited payakaraopeta is a bonafide work carried P. Siva Krishna (17U41E0021), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. B. Omnamashivaya, Associate Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. B. OMNAMASHIVAYA

ASSOC. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A study on
“TRADE UNION”
With special reference to
VISAKHAPATNAM STEEL PLANT



A Project report submitted to the JNTU, Kakinada in partial fulfillment for the award of the Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
PANASA LASHYA

(Reg. No. 17U41E0022)

Under the Esteemed guidance of

Mr .P. KIRAN KUMAR

MBA, (Ph.D), Assistant Professor

Department Of Management Studies



DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to J.N.T.U, Kakinada)

NAAC Accredited Institute

(As ISO 9001-2008 Certified Institution)

ANAKAPALLE-531002

(2017-2019)

CERTIFICATE

This is to certify that **P.LASHYA** Reg.no:**17U41E0022** the project report entitled “ **A STUDY ON TRADE UNION**” with reference to“**RINL-STEELPLANT**” **VISAKHAPATNAM** in partial fulfillment of requirements for the award of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mr. P. KIRAN KUMAR, Asst.professor of M.B.A Department, DIET college, Anakapalle.**

Project guide:
Mr. P. KIRAN KUMAR
Assistant professor
Department of MBA.

HEAD OF THE DEPARTMRNT
Dr. RAM KUMAR. P.B
M.com, MBA,DEE,PGDCA,Ph.D
Department of MBA.

H Rashtriya Ispat Nigam Limited



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : P.LASHYA
Regd./Trainee No : HR-1961
Course : M.B.A
Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI.
Project Topic : A STUDY ON "TRADE UNION" IN RINL.
Period of Training : 02/07/2018 TO 28/07/2018

His/Her conduct during the period of training was found to be
GOOD

VISAKHAPATNAM
Date 28-07-2017


Felicitor
Dr. ORM Rao
ASST. MGR.



A STUDY ON
"EMPLOYEE WELFARE"
WITH REFERENCE TO
RASTRIYA ISPATH NIGAM LIMITED, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfillment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

P.MADHURI

Reg.no.17U41E0023

Under the Esteemed Guidance of

K. CHANDRIKA

Assistant professor

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NH-5, Anakapalle-531002, Visakhapatnam, A.P

.2019



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Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "EMPLOYEE WELFARE" with reference to RASTHRIYA ISPAT NIGAM LIMITED is a bonafide work carried out by MADHURI PENTAKOTA (17U41E0023), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **K.CHANDRIKA, ASSISTANT PROFESSOR** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

K. CHANDRIKA

ASSOC. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : PENTAKOTA MADHURI
Regd./Trainee No : HR-1964
Course : M.B.A
Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY.
Project Topic : A STUDY ON "EMPLOYEE WELFARE" IN RINL.
Period of Training : 02/07/2018 TO 28/07/2018

His/Her conduct during the period of training was found to be

GOOD

VISAKHAPATNAM

Date 28/7/2018

Dr. G.R.M. RAO
Asst. General Manager (HRD)
RINL, Visakhapatnam Steel Plant

Felicitor
Dr. ORM Rao
AGM(HRD)

A STUDY ON
“INDUSTRIAL RELATIONS”
WITH REFERENCE TO
VISAKHAPATNAM STEEL PLANT

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
P.Sreelakshmi
Reg.no.17U41E0024

Under the Esteemed Guidance of
Dr. P.B. RAMA KUMAR
M.Com, MBA, DEE, PGDCA, Ph.D
Professor &HOD
Department of Management Studies



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

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NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “INDUSTRIAL RELATIONS-” with reference to RINL, Visakhapatnam is a bonfire work carried out by P.Sreelakshmi (17U41E00024) in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr.P.B. Rama Kumar, Professor &HOD** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr.P.B.Ramkumar

Head of the department

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : P SREE LAKSHMI
Regd./Trainee No : HR-1960
Course : M.B.A
Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
Project Topic : A STUDY ON "INDUSTRIAL RELATIONS" IN RINL.
Period of Training : 02/07/2018 TO 28/07/2018

His/Her conduct during the period of training was found to be

VERY GOOD

VISAKHAPATNAM

Date 28-07-2018

Dr. G. R. M. RAO
Asst. General Manager (HR)

Felicitor
Dr. ORM Rao
AGM(HRD)

A STUDY ON
“WORKING CAPITAL MANAGEMENT”
WITH REFERENCE TO
**THE CHODAVARAM CO-OPERATIVE SUGARS Ltd. GOVADA,
VISA KHAPATNAM**

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
P.HYMAVATHI
Reg.no.17U41E0025

Under the Esteemed Guidance of
Dr. P.B. RAMA KUMAR
M.Com, MBA, DEE, PGDCA, Ph.D
Professor & HOD
Department of Management Studies



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

PAN No: AAAAT 4375 N
GSTIN : 37AAAAT4375N1ZX

Email id : ccalgovada@yahoo.com
Grams : COOPSUGARS, GOVADA-531023.
Phone : STD 08934 : 245140/245158 (Office)
M.D.'s : 245127 (D), 245035 (R)
Fax No. : 245038
President's Office : 245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED
No B. 1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly. Stn. Visakhapatnam Dist., (A.P.)

SRI PRAVIN KUMAR I.A.S **SRI K.R.VICTOR RAJU**
CHAIRMAN DIST.COLLECTOR/PERSON IN-CHARGE **MANAGING DIRECTOR**

Ref No. RC.AD/6/2018-19

Date: 18-09-2018

CERTIFICATE

This is to certify that Kum. P.Hymavathi, a student of MBA from Dadi Institute Engineering & Technology, Anakapalli, Visakhapatnam, has carried out her project work on the subject of "FINANCE - WORKING CAPITAL MANAGEMENT" for a period of 45 days from 01-05-2018 to 15-06-2018 in this Organization.

During the period of project work her conduct and character are found to be satisfactory.


MANAGING DIRECTOR

*The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531 023, Visakhapatnam*



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “**WORKING CAPITAL MANAGEMENT**” with reference to **THE CHODAVARAM CO-OPERATIVE SUGARS Ltd., Govada, Visakhapatnam** is a bonafide work carried out by P.HYMAVATHI (17U41E0025), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. P.B. Rama Kumar, Professor & HOD** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P.B

PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“PERFORMANCE APPRAISAL”

WITH REFERENCE TO
**MANIHAMSA POWER PROJECTS LIMITED,
YELESWARAM**

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION
Submitted by

S. JALAJA
Reg.no.17U41E0026

Under the Esteemed Guidance of

Dr. G. SANTHOSHI KUMARI
Ph.D
ASSISTANT PROFESSOR
Department of Management Studies



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2017-2019



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "PERFORMANCE APPRAISAL" with reference to MANIHAMSA POWER PROJECTS LIMITED YELESWARAM is a bonafide work carried out by S. JALAJA (17U41E0026), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr.G. SANTHOSHI KUMARI** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr.G. SANTHOSHI KUMARI

Ph.D

ASSIS. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR

M.com, M.B.A, ph.D

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

MANIHAMSA

POWER PROJECTS LIMITED.

Project Office : Gap No. 2, Yeleru Reservoir Project, Yeleswaram - 533 429, E.G.Dist A.P.
e-mail : manihamsa_siteoffice@yahoo.co.in
Phone : 09392266336



Date: - 17.08.2018.

CERTIFICATE

This is to certify that the following student. Ms.S.JALAJA (Roll No-17U41E0026).Has been success fully completed the project Entitled **PERFORMANCE APPRAISAL** in our Organization for a period of 2nd July 2018 to 16th August 2018 during the period the behavior and conduct of student was found satisfactory



Form Manihamsa Power Project Ltd,

RSO
(H R Dept)

Regd. Office : D.No. 8-226, Canal Road, Ravulapalem, E.G.Dist. Ph : 08855-255665, 257665
e-mail : manihamsa_siteoffice@yahoo.co.in

A STUDY ON
“CAPITAL BUDGETING”
WITH REFERENCE TO
**THE CHODAVARAM CO-OPERATIVE SUGAR Ltd. GOVADA,
VISAKHAPATNAM**

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
S. CHANDRAKALA
Reg.no.17U41E0027

Under the Esteemed Guidance of
Dr. P.B. RAMA KUMAR
M.Com, MBA, DEE, PGDCA, Ph.D
Professor & HOD
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

PAN No. AAAAT4375 N
GSTIN. 37AAAA74375N1ZK

Email id: sridgovada@yahoo.com
Grams: COOPSUGARS, GOVADA-531023
Phone: STD 08934 245145/245158 (Office)
M.O's: 245127 (O), 245035 (R)
Fax No: 245038
President's Office: 245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED

No. B.1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly. Stn. Visakhapatnam Dist., (A.P.)

SRI K.BHASKAR, I.A.S
Dist.Collector / P.I.C

SRI K.R.VICTOR RAJU
MANAGING DIRECTOR

Ref no RC.AD/6/2018-19

Date 24-03-2019

CERTIFICATE

This is to certify that Kum. S.Chandrakala, a student of M.B.A from Dadi Institute of Engg & Technology, Anakapalli, has carried out her project work on the subject of "CAPITAL BUDGETING" for a period of 45 days from 26-06-2018 to 10-08-2018 in this Organization.

During the period of project work her conduct and character are found to be satisfactory.


MANAGING DIRECTOR

**The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531 023, Visakhapatnam Dist.
Chodavaram Mandal, Andhra Pradesh**



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “CAPITAL BUDGETING” with reference to **THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED**, Govada, Visakhapatnam is a bonafide work carried out by S.CHANDRAKALA (17U41E0027), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. P.B. Rama Kumar, Professor & HOD** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P.B

PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
"WELFARE AMINITIES"
WITH REFERENCE TO
**RASHTRIYA ISPACT NIGAM LIMITED,
VISAKHAPATNAM**

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
T. SURYA KALA
Reg.no.17U41E0028

Under the Esteemed Guidance of
Dr. G. SANTHOSHI KUMARI
Ph.D
ASSISTANT PROFESSOR
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi &Affiliated to JNTU, Kakinada)

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled "WELFARE AMINITIES" with reference to VIAHAKAPATNAM STEEL PLANT is a bonafide work carried out by THATIKONDA SURYAKALA (17U41E0028), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. G. SANTHOSHI KUMARI** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr.G. SANTHOSI KUMARI

ASSIS. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR ph.D

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

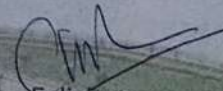
Name of the Student : T SURYAKALA
Regd./Trainee No : HR-1959
Course : M.B.A
Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI.
Project Topic : A STUDY ON "WELFARE AMINITIES" IN RINL.
Period of Training : 02/07/2018 TO 28/07/2018

His/Her conduct during the period of training was found to be

GOOD

VISAKHAPATNAM

Date 28-07-2018


Felicitor
Dr. ORM Rao
AGM(HRD)

A STUDY ON
“TRAINING AND DEVELOPMENT”
WITH REFERENCE TO
**CHODAVARAM CO-OPERATIVE SUGAR Ltd. GOVADA,
VISAKHAPATNAM**

A Project report submitted to Jawaharlal Nehru Technological University,
Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

V.RAJESH

Reg.no.17U41E0029

Under the Esteemed Guidance of
MRS.K.CHANDRIKA
MBA
Assistant Professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified

Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

PAN No. AAAAT 4375 N
GSTIN : 37AAAAT4375N1ZX

Email id : ccs@govada@yahoo.com
Grams : COOPSUGARS, GOVADA-531023.
Phone : STD 08934 : 245140/245158 (Office)
M.D.'s : 245127 (O), 245035 (R)
Fax No. : 245038
President's Office : 245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED
No B. 1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly. Stn. Visakhapatnam Dist., (A.P.)
SRI PRAVIN KUMAR I.A.S **SRI K.R.VICTOR RAJU**
CHAIRMAN **DIST.COLLECTOR/PERSON IN-CHARGE** **MANAGING DIRECTOR**

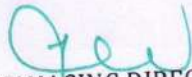
Ref No: **RC.AD/6/2018-19**

18-09-2018
Date :

CERTIFICATE

This is to certify that Mr. V. Rajesh, a student of MBA from Dadi Institute Engineering & Technology, Anakapalli, Visakhapatnam, has carried out his project work on the subject of "TRAINING & DEVELOPMENT" for a period of 45 days from 26-06-2018 to 10-08-2018 in this Organization.

During the period of project work his conduct and character are found to be satisfactory.


MANAGING DIRECTOR

*The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531 023, Visakha Dist.
Chodavaram Mandal, Andhra Pradesh*

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified
Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “TRAINING & DEVELOPMENT” with reference to CHODAVARAM CO-OPERATIVE SUGARS LIMITED GOVADA is a bonafide work carried out by V.RAJESH (17U41E0029), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **MRS.K.CHANDRIKA ,MBA, ASISTANT PROFESSOR** during the academic year 2017-19. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs. K. CHANDRIKA
ASSISTANT PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“HUMAN RESOURCE DEVELOPMENT”
WITH REFERENCE TO
RASHTRIYA ISPAT NIGAM LIMITED, VISAKHAPTNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
Y. KUSUMA SOWJANYA
Reg.no.17U41E0030

Under the Esteemed Guidance of
Dr.G. SANTHOSHI KUMARI
MBA, Ph.D
Assistant Professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)
NAAC ACCREDITED INSTITUTE
ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

Name of the Student : Y. KUSUMA SOWJANYA
Regd./Trainee No : HR - 1923
Course : M.B.A
Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, VISAKHAPATNAM
Project Topic : A Project Report on "HUMAN RESOURCE DEVELOPMENT" IN RINL VSP
Period of Training : 26/06/2018 TO 21/07/2018

His/Her conduct during the period of training was found to be

VERY GOOD

VISAKHAPATNAM

Date 21/7/18

Felicitator

Dr. ORM Rao
AGM(HRD)



DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY



(Approved by A.I.C.T.E, New Affiliated to JNTU: Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institute

NH-5, ANAKAPALLE-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the project work entitled “**A STUDY OF HUMAN RESOURCE DEVELOPMENT**” with reference to **RASHTRIYA ISPAT NIGAM LIMITED, VISAKHAPATNAM** is a bonafied work done and submitted by **Y.KUSUMA SOWJANYA (17U41E0030) DADI INST OF ENG & TECH**, in partial fulfillment of the requirements for the award of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of Dr. G. Santhoshi kumari, Assistance Professor during the academic year 2017-19.

This Project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr.G.SANTHOSHI KUMARI

ASSISTANT PROFESSOR

PROJECT GUIDE

Dr.P.B.RAM KUMAR

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
TRAINING AND DEVELOPMENT”
WITH REFERENCE TO
COROMANDEL INTERNATIONAL LTD.

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION
Submitted by

J.Priyanka
Reg.no.17U41E0031

Under the Esteemed Guidance of

Mrs.K.CHANDRIKA
Assistant professor

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “TRAINING AND DEVELOPMENT” with reference to COROMANDEL INTERNATIONAL LTD-is a bonafide work carried out by J.PRIYANKA (17U41E0001), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of Mrs.K.CHANDRIKA **Assistant professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs.K.CHANDRIKA
ASSOC. PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

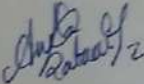
Date: August 29, 2018

CERTIFICATE

This is to certify that **J.Priyanka** (MBA-Human Resources) student of Dadi Institute of Engineering & Technology, Anakapalle, Visakhapatnam, A.P, Pin No.: 531002, India. Has pursued **her Internship on Training & Development** in our Organization between 05-Jul-2018 to 18-Aug-2018.

During the period she was found very hard working and dedicated towards her work.

For Coromandel International Ltd.,


Anita Patnaik.V
Dy. Manager - L&D



Registrative No : 209/2018-19

A STUDY ON
“RECRUITMENT AND SELECTION”
WITH REFERENCE TO
GRANULES OMNICHEM PRIVATE LIMITED

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, in partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

Y. POOJITHA

Reg.no.17U41E0032

Under the Esteemed Guidance of

A. Kiran Kumar sir

Senior assistant professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “RECRUITMENT AND SELECTION” with reference to Granules omnichem Pvt Ltd is a bonafide work carried out by Y. Poojitha (17U41E0032), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **A.Kiran Kumar sir senior assistant Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

A. Kiran Kumar

Senior assistant professor

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

Date: 17/10/2018

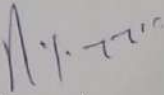
TO WHOM IT MAY CONCERN

This is to certify that Ms. Y. Poojitha, a student of MBA from Dadi Institute of Engineering & Technology (DITE), Visakhapatnam, Andhra Pradesh has successfully completed her internship program in Human Resource Department on the topic 'A Study on Recruitment System in Granules OmniChem Pvt. Ltd.' from 26/06/2018 to 11/08/2018 in our Organization.

During the period of her internship with us she is found punctual, hardworking and inquisitive.

We wish her every success in life.

For Granules OmniChem Pvt. Ltd.


(P.S. Tagore)

Associate Vice President (HR)



GRANULES OMNICHEM PRIVATE LIMITED

Registered Office : H.No. 1-123/MH/201, 2nd Floor, 3rd Block, My Home Hub, Madhapur, Hyderabad 500 081, Telangana, India. ☎+ 91 40667 6000
Works: Plot Nos. 121 (part) & 122, Ramky Pharma City (I) Ltd. SEZ, Parawada Mandal, Visakhapatnam - 531 019, Andhra Pradesh, India.
☎+91 08924-236293, 660300, E-mail: info@granulesomnichem.com, www.granulesomnichem.com
CIN No: U24233AP2011PTC076274

A STUDY ON
“WORKING CAPITAL MANAGEMENT”
WITH REFERENCE TO
COROMANDEL INTERNATIONAL ITD, VISAKHAPATNAM



A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION
Submitted by

S. GIRIJA PRASANNA

Reg.no.17U41E0033

Under the Esteemed Guidance of
Dr. B. OMNAMASIVAYA, MBA, Ph.D
Associate Professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)
NAAC ACCREDITED INSTITUTE
ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E &

NAAC ACCREDITED

ISO 9001:2008; ISO 14001:2004 & OHSAS



Affiliated to JNTU, Kakinada)

INSTITUTE

18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "WORKING CAPITAL MANAGEMENT" with reference to "CORAMANDEL INTERNATIONAL LTD, VISAKHAPATNAM" is a bonafide work carried out by S.Girija prasanna(17U41E0033), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr.B.OMNAMASIVAYA, Associate professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. OMNAMASIVAYA

ASSOC. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

Date: 11-Aug-2018

CERTIFICATE

This is to certify that **Ms.S.Girija Prasanna** (MBA-Finance) student of Dadi Institute of Engineering & Technology, Anakapalle, Visakhapatnam, A.P, Pin No.: 531002, India. Has pursued her Internship on **Working Capital Management** in our Organization between 25-Jun-2018 to 09-Aug-2018.

During the period she was found very hard working and dedicated towards her work.

For Coromandel International Ltd.,


Anita Patnaik.V
Dy.Manager - L&D



Registration No. : 208/2018-19

A STUDY ON
“TRAINING AND DEVELOPMENT”
WITH REFERENCE TO
MANIHAMSA, YELESWARAM

A Project report submitted to Jawaharlal Nehru Technological
University, Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

Y.APARANJINI

Reg.no.17U41E0034

Under the Esteemed Guidance of

Mrs. K. CHANDRIKA

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “TRAINING AND DEVELOPMENT” with reference to MANIHAMSA POWER PLANT is a bonafide work carried out by Y.APARANJINI (17U41E0034), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mrs. K.CHANDRIKA** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs. K.CHANDRIKA
ASSISTANT. PROFESSOR
PROJECT GUIDE

Dr. RAM KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

MANIHAMSA

POWER PROJECTS LIMITED.

Project Office : Gap No. 2, Yeleru Reservoir Project, Yeleswaram - 533 429, E.G.Dist A.P.

e-mail : manihamsa_siteoffice@yahoo.co.in

Phone : 09392266336



Date: - 17.08.2018.

CERTIFICATE

This is to certify that the following student.
Ms.Y.APARANJINI (Roll No-17U41E0034).Has been success fully
completed the project Entitled **TRAINING AND DEVELOPMENT** in
our Organization for a period of 2nd July 2018 to 16th August 2018 during
the period the behavior and conduct of student was found satisfactory



Form Manihamsa Power Project Ltd.

R/o
(H R Dept)

A STUDY ON
“EFFECTIVE COMMUNICATION”
WITH REFERENCE TO
RASHATRIYA ISPAT NIGAM LIMITED, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for
the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
CH . DHANALAKSHMI
Reg.no.17U41E0035

Under the Esteemed Guidance of
Mrs. K . CHANDRIKA
MBA
ASSISTANT PROFESSOR
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)
NAAC ACCREDITED INSTITUTE
ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “EFFECTIVE COMMUNICATION” with reference **RASHATRIYA ISPAT NIGAM LIMITED, VISAKHAPATNAM** is a bonafide work carried out by **CH . DHANALAKSHMI (17U41E0035)**, in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of , **Mrs.K. CHANDRIKA Assistant profes**during the academic year 2017-19. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs.K.CHANDRIKA
ASSISTANT PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“ INDUSTRIAL RELATIONS ”
WITH REFERENCE TO
THE CHODAVARAM CO-OPERATIVE SUGAR LIMITED
GOVADA , VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
SURISSETTY PRIYANKA
Reg.no.17U41E0036

Under the Esteemed Guidance of
Mrs . K .CHANDRIKA
MBA
Assistant Professor
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi &Affiliated to JNTU, Kakinada)
NAAC ACCREDITED INSTITUTE
ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “ **INDUSTRIAL RELATIONS** ” with reference to “**THE CHODAVARAM CO-OPERATIVE SUGAR LIMITED GOVADA , VIZAG** ” is a bonafide work carried out by **SURISSETTY PRIYANKA** (17U41E0036) , in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mrs . K. CHANDRIKA** Assistant Professor during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs. K.CHANDRIKA
ASSISTANT PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

PAN No. AAAAT 4375 N
GSTIN : 37AAAAT4375N1ZX

Email id : ccslgovada@yahoo.com
Grams : COOPSUGARS, GOVADA-531023.
Phone : STD 08934 : 245140/245158 (Office)
M.D.'s : 245127 (O), 245035 (R)
Fax No. : 245038
President's Office : 245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED

No B. 1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly. Stn. Visakhapatnam Dist., (A.P.)

SRI PRAVIN KUMAR I.A.S

SRI K.R.VICTOR RAJU

CHAIRMAN DIST.COLLECTOR/PERSON IN-CHARGE MANAGING DIRECTOR

Ref No: RC.AD/6/2018-19

18-09-2018
Date :

CERTIFICATE

This is to certify that Kum. **S.Priyanka**, a student of MBA from Dadi Institute Engineering & Technology, Anakapalli, Visakhapatnam, has carried out her project work on the subject of "**HR - INDUSTRIAL RELATIONS**" for a period of 45 days from 01-05-2018 to 15-06-2018 in this Organization.

During the period of project work her conduct and character are found to be satisfactory.


MANAGING DIRECTOR

*The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531 023, Visakhapatnam*

A STUDY ON
“RECRUITMENT AND SELECTION”
WITH REFERENCE TO
GOVADA CO-OPERATIVE SUGAR LIMITED
CHODAVARAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
P. PRIYANKA
(Reg.no.17U41E0037)

Under the Esteemed Guidance of
MRS.K. CHANDRIKA
ASSISTANT PROFESSOR
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

PAN No AAAAT 4375 N
GSTIN: 37AAAAT4375N1ZX

Email :ccslgovada@yahoo.com
Grams :COOPSUGARS, GOVADA-511023
Phone :STD 08934 :245140/245158(Office)
M.D`s : 08934:245127(0),245035(R)
Fax No : 245038
President`s :245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED
No B. 1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly.Stn. Visakhapatnam Dist., (A.p)

SRI. K.BHASKAR, I.A.S.
Dist. Collector/P.I.C

SRI.K.R.VICTOR RAJU
MANAGING DIRECTOR

RC.AD/6/2018-19
Ref No:.....

26-03-2019
Date:.....

CERTIFICATE

This is to certify that Kum. P. PRIYANKA, a student of MBA from Dadi Institute Engineering & Technology, Anakapalli, Visakhapatnam, has carried out her project work on the subject of "RECRUITMENT & SELECTION" for a period of 37days from 25-06-2018 to 31-07-2018 in this Organization.

During the period of project work her conduct and character are found to be satisfactory.


MANAGING DIRECTOR

*The Chodavaram Co-operative
Sugars Limited No. 1109*

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “**RECRUITMENT AND SELECTION**” with reference to **GOVADA CO-OPERATIVE SUGAR LIMITED CHODAVARM** is a bonafide work carried out by **PENTAKOTA PRIYANKA(17U41E0037)**, in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mrs.K.chandrika** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

MRS.K. CHANDRIKA

ASSIS. PROFESSOR

PROJECT GUIDE

Dr.RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
“RECRUITMENT AND SELECTION”
WITH REFERENCE TO
UNIPARTS INDIA LIMITED ATCHUTAPURAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
TUMULA PARVATHI
Reg.no.17U41E0038

Under the Esteemed Guidance of
MR. A. KIRAN KUMAR
M.B.A senior .asst. professor

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

UNIPARTS INDIA LTD.

Plot No.47, APIIC, APSEZ, Atchutapuram,
Pudimadaka Road, Visakhapatnam – 531 011 (A.P).
Tel: +91 8924 286 555, Fax: +91 8924 286 535

31st August,2018

CERTIFICATE

This is to certify that **Mis:TUMULA PARVATHI D/O TUMULA KASAYYA** , Regd No -**17U41E0038** MBA student of "**DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY** ", has under gone a Industrial Project Training at our Company, **Uniparts India Limited**, Atchutapuram, Visakhapatnam District from **28th June 2018 to 30th August 2018**.

During his tenure he was keen to learn new things and found sincere & good.

We wish all the best for his future endeavors.

With Best Regards,

For UNIPARTS INDIA LIMITED,

K.S.S.Y Murali
Human Resources



Regd. Office: Gripwell House, Block 5, C 6 & 7, Vasant Kunj, New Delhi – 110 070, India Tel: +91 11 26137979, Fax: +91 11 26133195
Corporate Office: S8 Tower, Ground Floor, Plot # 1A/1, Sector 16A, Noida – 201 301, (U.P.), India.
Tel: +91 120 4581400, Fax: +91 120 4581499 E-mail: info@unipartsgroup.com, Website: www.unipartsgroup.com
An ISO 9001:2008 & 14001:2004 Company, CIN : U74899DL1994PLC061753



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NH-5, Anakapalle-531002, Visakhapatnam, A.P



CERTIFICATE

This is to certify that the Project work entitled “**RECRUTMENT AND SELECTION**” with reference to **UNIPARTS INDIA LIMITED** is a bonafide work carried out by TUMULA PARVATHI (17U41E0038), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mr. A. Kiran Kumar, Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mr. A. KIRAN KUMAR
ASSOC. PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

“FINANCIAL PERFORMANCE AND BUDGETING”

WITH REFERENCE TO

RASHTRIYA ISPAT NIGAM LIMITED, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the
Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by

G.DHANA LAKSHMI

Reg.no.17U41E0039

Under the Esteemed Guidance of

Dr. B. OMNAMASIVAYA

M.B.A, Ph. D

Associate Professor

Department of Management Studies



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2017-2019



Visakhapatnam Steel Plant
Visakhapatnam

MANAGEMENT DEVELOPMENT



This is to certify that the following student has undergone Project Work / Training at Visakhapatnam Steel Plant

- Name of the Student : G. DHANA LAKSHMI
- Regd./Trainee No : FIN - 1946
- Course : M.B.A
- Name of the Institute : DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, VISAKHAPATNAM.
- Project Topic : A Report on "FNANCIAL PERFORMANCE & BUDGETING" IN RINL VSP
- Period of Training : 26/06/2018 TO 21/07/2018

His/Her conduct during the period of training was found to be

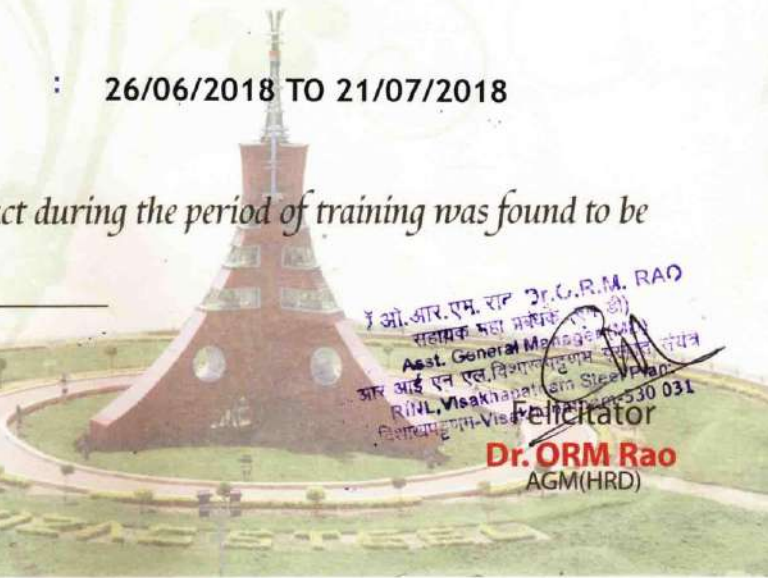
VERY GOOD

VISAKHAPATNAM

Date 21/07/2018

Dr. G.R.M. RAO
Asst. General Manager
RINL, Visakhapatnam Steel Plant
530 031

Dr. ORM Rao
AGM(HRD)





DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "FINANCIAL PERFORMANCE AND BUDGETING" with reference to "RASTHTRIYA ISPAT NIGAM LIMITED ,VISAKHAPATNAM" is a bonafide work carried G.Dhanalakshmi, (17U41E0039), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr.B. Omnamasivaya, Associate Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

PROJECT GUIDE

Dr. B. OMNAMASIVAYA

M.B.A, Ph. D

ASSOC. PROFESSOR

HEAD OF THE DEPARTMENT

Dr. P.B. RAMA KUMAR

M.COM, M.B.A, Ph. D

PROFESSOR

EXTERNAL EXAMINER

A STUDY ON
“PERFORMANCE APPRAISAL”
WITH REFERENCE TO
CHODAVARAM CO-OPERATIVE SUGAR Ltd. GOVADA, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of



MASTER OF BUSINESS ADMINISTRATION

Submitted by
P.ROOPA RAVINDRA BABU
Reg.no.17U41E0040

Under the Esteemed Guidance of
Mr A.KIRAN KUMAR
MBA, Senior Assistant Professor

Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019

PAN No. AAAAT 4375 N
GSTIN : 37AAAAT4375N1ZX

Email id : ccslgovada@yahoo.com
Grams : COOPSUGARS, GOVADA-531023
Phone : STD 08934 : 245140/245158 (Office)
M.D.'s : 245127 (O), 245035 (R)
Fax No. : 245038
President's Office : 245156

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED
No B. 1109, GOVADA - 531023.

Chodavaram (Mandal), Anakapalle Rly. Stn. Visakhapatnam Dist., (A.P.)

SRI PRAVIN KUMAR I.A.S **SRI K.R.VICTOR RAJU**
CHAIRMAN **DIST.COLLECTOR/PERSON IN-CHARGE** **MANAGING DIRECTOR**

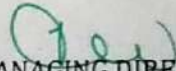
Ref No: **RC.AD/6/2018-19**

18-09-2018
Date :

CERTIFICATE

This is to certify that Mr. P.R.Ravindra Babu, a student of MBA from Dadi Institute Engineering & Technology, Anakapalli, Visakhapatnam, has carried out his project work on the subject of "PERFORMANCE APPRAISAL" for a period of 45 days from 26-06-2018 to 10-08-2018 in this Organization.

During the period of project work his conduct and character are found to be satisfactory.


MANAGING DIRECTOR

*The Chodavaram Co-operative
Sugars Limited No. 1109
GOVADA-531 023, Visakha Dist.
Chodavaram Mandal, Andhra Pradesh*

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CERTIFICATE

This is to certify that the Project work entitled “Performance Appraisal” with reference to Chodavaram Co-Operative sugars limited is a bonafide work carried out by P Roopa Ravindra Babu (17U41E0001), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **A.Kiran Kumar, Senior Assistant Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

A KIRAN KUMAR

SENIOR ASSISTANT.PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON
INVENTORY MANAGEMENT
WITH REFERENCE TO
COROMANDEL INTERNATIONAL LTD



A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION



Submitted by
J. BHARATHI
Reg.no.17U41E0041

Under the Esteemed Guidance of

Dr. P.B. RAMA KUMAR
M.Com, MBA, DEE, PGDCA, Ph.D.
Professor & HOD
Department of Management Studies



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



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ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “**INVENTORY MANAGEMENT**” with reference to **COROMANDEL INTERNATIONAL LTD** is a bonafide work carried out by **J. BHARATHI** (17U41E0041), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. P.B. Rama Kumar, Professor & HOD** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P. B
PROFESSOR & HOD
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER



Coromandel International Limited

Post Box No. 1116, Sriharipuram, Malkapuram Post
Visakhapatnam - 530 011, Andhra Pradesh, India
Tel : 91-891-2578400 to 2578416
DID : 91-891-2578417/18/19
Fax : 91-891-2577665/2516164
Website : www.coromandel.biz
CIN : L24120API96IPLC000892

Date: 11-Aug-2018

CERTIFICATE

This is to certify that **Ms.J.Bharathi.** (MBA-Finance) student of Dadi Institute of Engineering & Technology, Anakapalle, Visakhapatnam, A.P, Pin No.: 531002, India. Has pursued her Internship on **Inventory Management** in our Organization between 25-Jun-2018 to 09-Aug-2018.

During the period she was found very hard working and dedicated towards her work.

For Coromandel International Ltd.,

Anita Patnaik.V
Dy.Manager - L&D



Registration No.: 207/2018-19

Registered Office : 'Coromandel House', 1-2-10
Sardar Patel Road, Secunderabad - 500 003
Telangana, India

Tel: 91-40-27842034 / 27847212
Fax : 91-40-27844117
E-mail : mail@coromandel.murugappa.com



“A STUDY ON
WORKING CAPITAL MANAGEMENT”

with reference to

THANDAVA CO-OPERATIVE SUGARS LIMITED PAYAKARAOPETA”

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In
partial fulfilment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION



Submitted by

MD Shahid

Reg.no.17U41E0042

Under the Esteemed Guidance of
Dr. B. OMNAMASHIVAYA MBA, Ph.D
Associate Professor
Department of Management Studies



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.2019



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled “working capital management” with reference to Thanadava co-operative sugars limited Payakaraopeta is a bonafide work carried MDshahid(17U41E0042), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr.B. Omnamashivaya, Associate Professor** during the academic year 2017-19.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. B. OMNAMASHIVAYA

ASSOC. PROFESSOR

PROJECT GUIDE

Dr. RAMA KUMAR P.B

PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

E Mail : thethandavasugarslimited@gmail.com
TIN : 37440214194
A.P.G.S.T. No. VSP/06/6-1009
C.S.T. No. VSP/06/1002

STD : 08854
Office : 253587
M.D. : 254091
M.D.(Res) : 254092

The Thandava Co-operative Sugars Limited, No.C.181
(SUGAR MANUFACTURERS)

PAYAKARAOPETA-531126
TUNI R.S.
Visakhapatnam Dist., A.P.

SRI S.LOVA RAJU, B.A.,
PRESIDENT.

SRI V.S.NAIDU, B.Sc., M.B.A., AVSI(Tech), ASTA,
MANAGING DIRECTOR.

Ref No. Tcs/Admn/Estt/PW/2017-18.

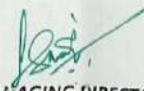
Dt.16.10.2018.

CERTIFICATE

This is to certify that Mr.Mahammad Shahid, Student of M.B.A., from Dadi Institute of Engineering & Technology, Anakapalli, Visakhapatnam District, Andhra Pradesh has successfully completed Project work on the Topic of " WORKING CAPITAL MANAGEMENT " as a Part of the Curricular requirement in The Thandava CO-op. Sugars Limited., Payakaraopeta, Visakhapatnam District, Andhra Pradesh from 29.06.2018 to 14.08.2018.

During the above Period, His/Her Conduct and Character are found to be Satisfactory.




MANAGING DIRECTOR.



2

**ASTUDY ON MUNICIPAL SOLID WASTEMANAGEMENT IN
LOCAL SCENARIO OF ANAKAPALLE TOWN**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

K.TULASI SAI	(16U45A0123)
A.JAGAN	(16U45A0130)
S.HAREESH	(16U45A0131)
V.SAI KUMAR	(16U45A0129)
O.RAMA KRUSHNAYYA	(15U41A0118)

Under the Esteemed Guidance of

Sri. B.SESHAGIRI RAO

HOD, Department of CIVIL



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



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(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

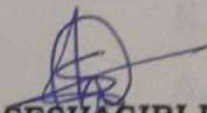
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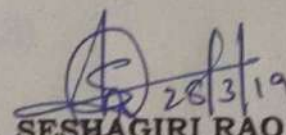
ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

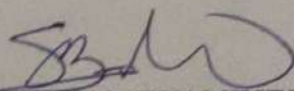
CERTIFICATE

This is to certify that the project work entitled "**A STUDY ON MUNICIPAL SOLID WASTE MANAGEMENT IN LOCAL SCENARIO OF ANAKAPALLE TOWN**" that is being submitted by K. TULASI SAI (16U45A0123), S.HAREESH(16U45A0131),A.JAGAN(16U45A0130),V.SAIKUMAR(16U45A0129),O.RAMA KRUSHNAYYA(15U41A0118) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for CIVIL ENGINEERING during the academic year 2018-19.


Mr. B. SESHAGIRI RAO
ASSISTANT PROFESSOR
PROJECT GUIDE


Mr. B. SESHAGIRI RAO
ASSISTANT PROFESSOR
HEAD OF THE DEPARTMENT

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002


EXTERNAL EXAMINER

**AN EXPERIMENTAL STUDY ON FRESH & HARDENED
PROPERTIES OF M20 GRADE CONCRETE WITH PARTIAL
REPLACEMENT OF FINE AGGREGATE & CEMENT WITH
PLASTIC AND FLYASH RESPECTIVELY**

*A project report submitted in partial fulfillment of
the requirements for the award of the degree of*

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

P. GANA SAI	(16U45A0112)
B. USHA SRI	(16U45A0103)
B. HAREESH	(16U45A0104)
B. LOVA RAJU	(15U41A0125)
K. BHARATH	(15U41A0111)

Under the Esteemed Guidance of

Miss. P. LAVANYA

Assistant professor, Department of CIVIL



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Affiliated to
JNTU Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



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ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the thesis entitled "AN EXPERIMENTAL STUDY ON FRESH & HARDENED PROPERTIES OF M20 GRADE CONCRETE WITH PARTIAL REPLACEMENT OF FINE AGGREGATE & CEMENT WITH PLASTIC AND FLYASH RESPECTIVELY" is being submitted by P. GANA SAI, B. USHA SRI, B. HAREESH, B. LOVA RAJU, K. BHARATH for the partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2018-2019.

P. Lavanya

Miss. P. LAVANYA M.Tech
(ASSISTANT PROFESSOR)
PROJECT GUIDE

[Signature] 28/3/19

Mr. B. SESHAGIRI RAO M.E
(ASSISTANT PROFESSOR)
HEAD OF THE DEPARTMENT

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

[Signature]

EXTERNAL EXAMINER

**CHARACTERIZATION OF SEWAGE AND DESIGN OF
SEWAGE TREATMENT PLANT**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of
BACHELOR OF TECHNOLOGY*

IN

CIVIL ENGINEERING

Submitted by

K. DIVAKAR	16U45A0106
B. ASHOK	16U45A0135
K. BHANU	15U41A0110
K. RAJESH	15U41A0114
D. HARISH	15U41A0131

Under the Esteemed Guidance of

Mr. B. SESHAGIRI RAO

Head of the Department

CIVIL ENGINEERING



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2019



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada)

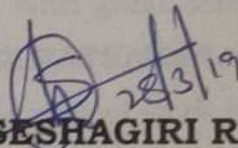
NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

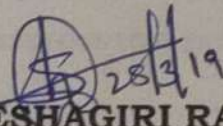
NH-5, Anakapalle-531002, Visakhapatnam, A.P.

Certificate

This is to certify that the Project Work entitled "CHARACTERIZATION OF SEWAGE AND DESIGN OF SEWAGE TREATMENT PLANT" That is being submitted by K. DIVAKAR (16U45A0106), B. ASHOK (16U45A0135), **K. BHANU (15U41A0110)**, K. RAJESH (15U41A0114), D. HARISH (15U41A0131) for the fulfillment of the degree of bachelor of technology in **CIVIL ENGINEERING** to Jawaharlal Nehru Technological University – Kakinada is a record of bonafide work carried out by him under my guidance and supervision.

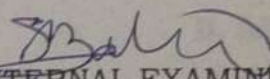

Mr. B. SESHAGIRI RAO

(PROJECT GUIDE)


Mr. B. SESHAGIRI RAO

(HEAD OF THE DEPARTMENT
CIVIL ENGINEERING)

Head of the Department
Civil Engineering
Jadl Institute of Engg. & Tech.
Anakapalle - 531 002


EXTERNAL EXAMINER

**AN EXPERIMENTAL STUDY ON LIGHTWEIGHT
CONCRETE WITH WASTE TIMBER**

*A Project Report submitted in partial fulfilment of the
requirements for the award of Degree Of*

**BACHELOR OF TECHNOLOGY
IN
CIVIL ENGINEERING**

Submitted by

A SRAVANI	(16U45A0102)
P PAVAN	(16U45A0114)
R MAHESH	(15U41A0119)
MITHUN KRISHNAN	(15U41A0116)
G SAI RAMA KRISHNA	(15U41A0107)

Under the Esteemed Guidance of

Mr. M.R.V.S.G.GUPTHA

Assistant professor. Department of
CIVIL ENGINEERING



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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CERTIFICATE

This is to certify that the Project Work entitled "AN EXPERIMENTAL STUDY ON LIGHTWEIGHT CONCRETE WITH WASTE TIMBER" That is being submitted by A SRAVANI(16U45A0102), P PAVAN(16U45A0114), RMAHESH (15U41A0119), MITHUN KRISHNAN (15U41A0116), G SAI RAMA KRISHNA (15U41A0107) for the fulfillment of the degree of bachelor of technology in CIVIL ENGINEERING to Jawaharlal Nehru Technological University - Kakinada is a record of bonafide work carried out by him under my guidance and supervision.

Mr. M.R.V.S.G.GUPTHA
(ASSISTANT PROFESSOR)

(PROJECT GUIDE)

Sri. B.SESHAGIRI RAO
(ASSISTANT PROFESSOR)

(HEAD OF THE DEPARTMENT)

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

EXTERNAL EXAMINER

**A STUDY ON STRENGTH AND DURABILITY PROPERTIES
OF CONCRETE BY PARTIAL REPLACEMENT OF
AGGREGATES WITH CERAMIC TILES AND GRANITE
POWDER**

*A Project Report submitted in partial fulfillment of the
requirements for the award of the Degree of*
BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

K. KUSUMA RAMYATHA	(15U45A0113)
N. VENKATA NARAYANA	(16U45A0141)
U. JOGESWAR SAI	(16U45A0127)
G. REVATHI	(15U45A0108)

Under the Esteemed Guidance of

Mrs P. LAVANYA

Assistant Professor, Department of CIVIL
ENGINEERING



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "**A STUDY ON STRENGTH AND DURABILITY PROPERTIES OF CONCRETE BY PARTIAL REPLACEMENT OF AGGREGATES WITH CERAMIC TILES AND GRANITE POWDER**" is a being submitted by K.KUSUMA RAMYATHA (15U41A0113), N.VENKAT NARAYANA (16U45A0141), U.JOGESWAR SAI (15U45A0127), G.REVATHI (15U41A0108), in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for CIVIL ENGINEERING during the academic year 2018-19.

Mrs P. LAVANYA

(ASSISTANT PROFESSOR)

(PROJECT GUIDE)

Sri B. SESHAGIRI RAO

(ASSISTANT PROFESSOR)

(HEAD OF THE DEPARTMENT)

Head of the Department
Civil Engineering
Jadi Institute of Engg. & Tech.
Anakapalle - 531 002

EXTERNAL EXAMINER

**STRENGTHENING OF SOIL USING CHEMICAL
ADDMIXTURES-A COMPARITIVE CASE STUDY**

*A Project Report submitted in partial fulfilment of the requirements
for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

B.VARAHALA MURTHY	(16U45A0138)
B.TRIVENI	(15U41A0104)
V.AASHRITH VARMA	(15U41A0122)
CH.USHA SRI	(16U45A0120)
B. PAVAN KUMAR	(15U41A0126)

Under the Esteemed Guidance of

Mr. M.R.V.S.G.GUPTHA

Asst. Professor, Department of CIVIL ENGINEERING



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

CERTIFICATE

This is to certify that the project work entitled "STRENGTHENING OF SOIL USING CHEMICAL ADDMIXTURE-A COMPARITIVE CASE STUDY" is a being submitted by B. VARAHALA MURTHY (16U45A0138), B.TRIVENI (15U41A0104), V. AASHRITH VARMA (15U41A0122), CH.USHA SRI (16U45A0120), B. PAVAN KUMAR (15U41A0126) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for civil engineering during academic year 2018-2019.

M. M.R.V.S.G. Gupta

Mr. M.R.V.S.G.GUPTHA

(ASST. PROFESSOR)

(PROJECT GUIDE)

B. Seshagiri Rao
28/3/19

Mr. B.SESHAGIRI RAO

(ASST. PROFESSOR)

(HEAD OF THE DEPARTMENT)

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech
Anakapalle - 531 002

[Signature]

EXTERNAL EXAMINER

**EXPERIMENTAL STUDY ON GLASS FIBRE REINFORCED
CONCRETE WITH THE REPLACEMENT OF NATURAL
SAND WITH QUARRY ROCK DUST**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*
BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

M. SAI KUMAR	16U45A0109
CH. RAJAN RAJU	16U45A0132
K. MANOHAR	15U41A0112
N. GANESH	16U45A0128
A. RAHUL	15U4110101

Under the Esteemed Guidance of

Ms P. UMA

Asst Professor, Department of CIVIL



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project Report entitled, "EXPERIMENTAL STUDY ON GLASS FIBRE REINFORCED CONCRETE WITH THE REPLACEMENT OF NATURAL SAND WITH QUARRY ROCK DUST" is being submitted by M.SAI KUMAR (16U45A0109), CH.RAJANRAJU (16U45A0132), K.MANOHAR (15U41A0112), N.GANESH (16U45A0128), A.RAHUL (15U41A0101) in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to Jawaharlal Nehru Technological University - Kakinada is a record of bonafide work carried out by him in the year 2018-2019 under my guidance and supervision.

Ms. P. UMA
(Asst. Professor)
(PROJECT GUIDE)

Mr. B. SESHAGIRI RAO
(Asst. Professor)
(HEAD OF THE DEPARTMENT)

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tec.
Anakapalle - 531 002

EXTERNAL EXAMINER

**ENVIRONMENTAL IMPACT ASSESSMENT OF DADI
INSTITUTE OF ENGINEERING & TECHNOLOGY,
ANAKAPALLE**

*A Project Report submitted in partial fulfilment of the requirements
for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

OM KUMAR	(15U41A0130)
A. RAMA LAKSHMI	(16U45A0136)
S. KRANTHI KUMAR	(16U45A0116)
B. MAHALAXMI NAIDU	(16U45A0134)
B. ROHITH KUMAR	(15U41A0103)

Under the Esteemed Guidance of

Mr. K. SANTHOSH

Asst. Professor, Department of CIVIL ENGINEERING



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CERTIFICATE

This is to certify that the Project work entitled "ENVIRONMENTAL IMPACT ASSESSMENT OF DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLE" is a being submitted by OM KUMAR (15U41A0130), A.RAMA LAKSHMI (16U45A0136), **S.KRANTHI KUMAR (16U45A0116)**, B.MAHALAXMI NAIDU (16U45A0134) & B. ROHITH KUMAR (15U41A0103) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for CIVIL ENGINEERING during the academic year 2018-19.

K. Santhosh

Mr. K. SANTHOSH

(ASST. PROFESSOR)

(PROJECT GUIDE)

B. Seshagiri Rao
28/3/19

Mr. B. SESHAGIRI RAO

(ASST. PROFESSOR)

(HEAD OF THE DEPARTMENT)

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

[Signature]
EXTERNAL EXAMINER

**EXPERIMENTAL STUDY ON IMPROVING THE
STRENGTH OF PERVIOUS CONCRETE BY USING
SUPER PLASTICIZER 60**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*
BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

P.PRASAD	16U45A0126
K.RENUKA	15U41A0120
P.PREM KUMAR	16U45A0113
B.THARUN KUMAR	16U45A0137
CH.SRI RAM	16U45A0133

Under the Esteemed Guidance of

CH. JYOSHNA

Assistant Professor, Department of civil Engineering



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "EXPERIMENTAL STUDY ON IMPROVING THE STRENGTH OF PERVIOUS CONCRETE BY USING SUPER PLASTICIZER 60" is a being submitted by P.PRASAD (16U45A0126), K.RENUKA (15U41A0120), P.PREM KUMAR (16U45A0113), B.THARUN KUMAR (16U45A0137), CH.SRI RAM (16U45A0133) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for CIVIL ENGINEERING during the academic year 2018-19.

Ms. CH. JYOSHNA

(ASSISTANT PROFESSOR)

(PROJECT GUIDE)

Sri. B. SESHAGIRI RAO

(ASSISTANT PROFESSOR)

(HEAD OF THE DEPARTMENT)

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

EXTERNAL EXAMINER

**EXPERIMENTAL STUDY ON BLACK COTTON SOIL
BRICKS BY USING FLYASH**

*A Project Report submitted in partial
fulfillment of the requirements for the award
of the Degree of*

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

N.MANJULA	16U45A0111
CH.RAJASEKHAR	16U45A0143
I.MANIKANTA	15U41A0109
B. RAJENDRA PATRUDU	15U41A0127
G.RAJA	16U45A0105

Under the Esteemed Guidance of
Ms.CH.JYOSHNA
Assistant Professor, Department of CIVIL



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the project report entitled, "**EXPERIMENTAL STUDY ON BLACK COTTON SOIL BRICKS USING FLYASH**" is being Submitted By N.MANJULA, CH.RAJASEKHAR, I.MANIKANTA, B.RAJENDRA PATRUDU, G.RAJA. In partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2018-2019.

Ms. CH. JYOSHNA

(ASST. PROFESSOR)

(PROJECT GUIDE)

Mr. B. SESHAGIRI RAO

(ASST. PROFESSOR)

(HEAD OF THE DEPARTMENT)

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

EXTERNAL EXAMINER

**PROPERTIES OF SELF COMPACTING CONCRETE FOR M40
GRADE BY USING ADMIXTURES**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

A. SANTHOSH KUMAR	16U45A0101
M. KARTIK	16U45A0125
S. MARTEENA LYDIA	15U41A0121
E. PRUDHVI SAMPATH SAI	15U41A0106
V. NARASINGA RAO	16U45A0117

Under the Esteemed Guidance of

V. ALIVELU MANGAMMA

Assistant Professor, Department of Civil



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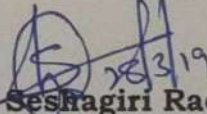
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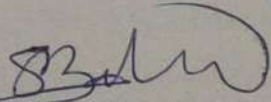
CERTIFICATE

This is to certify that the project work entitled "PROPERTIES OF SELF COMPACTING CONCRETE FOR M40 GRADE BY USING ADMIXTURES" is being submitted by " A.SANTHOSH KUMAR (16U45A0101), M.KARTIK (16U45A0125), S.MARTEENA LYDIA (15U41A0121), E.PRUDHVI SAMPATH SAI (15U41A0106), V.NARSING RAO (16U45A0117), for the fulfilment of the Degree of bachelor of technology in civil engineering to Jawaharlal Nehru Technological university- Kakinada is a record of benefited work carried out by them under my guidance and supervision.


Ms. V. Alivelu Mangamma
(ASSISTANT PROFESSOR)
(PROJECT GUIDE)


Mr. B. Seshagiri Rao
(ASSISTANT PROFESSOR)
(HEAD OF THE DEPARTMENT)

Head of the Department
Civil Engineering
JadI Institute of Engg. & Tech.
Anakapalle - 531 002


EXTERNAL EXAMINER

**EXPERIMENTAL STUDY ON SELF COMPACTING
CONCRETE USING MINERAL ADMIXTURES**

*A project report submitted in partial fulfilment of the requirements for
the award of the degree of*

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

G.RAMESH	(16U45A0122)
K.SRINIVASA RAO	(16U45A0139)
A.JOHN	(15U41A0102)
M.CHANDRA SEKHAR	(15U41A0115)
R.POORNA CHANDU	(15U41A0128)

Under the esteemed guidance of

Mr. K. SANTHOSH

Asst. professor, Civil Department



DEPARTMENT OF CIVIL ENGINEERING

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CERTIFICATE

This is to certify that the project entitled "EXPERIMENTAL STUDY ON SELF COMPACTING CONCRETE USING MINERAL ADMIXTURES" is being submitted by RAMESH GORLE (16U45A0122), K. SRINIVASA RAO (16U45A0139), A. JOHN (15U41A0102), M. CHANDRA SEKHAR (15U41A0115), R.POORNA CHANDU (15U41A0128) in partial fulfilment for the award of the Degree of Bachelor of Technology in Civil engineering during the academic year 2018-2019.

Mr. K. SANTHOSH

Asst.professor

(Project guide)

Mr. B. SESHAGIRI RAO

Asst.professor

(Head of the Civil Department)

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

External Examiner

**STABILIZATION OF EXPANSIVE SOIL BY USING BAGGASE
ASH AND RICE HUSK ASH**

*A project report submitted in partial fulfillment of
the requirements for the award of the degree of*

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

M.BALA KRISHNA	(16U45A0110)
K.RENUKA	(16U45A0108)
K.AYYAPA NAIDU	(16U45A0107)
V.S.LALITHAMBA	(15U41A0123)
D.VAMSI	(15U41A0105)

Under the Esteemed Guidance of

Mrs.B.RAMYA,

Assistant professor, Department of Civil



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CERTIFICATE

This is to certify that the project work entitled "STABILIZATION OF EXPANSIVE SOIL BY USING BAGGASE ASH AND RICE HUSK ASH" that is being submitted by "M.BALA KRISHNA (16U45A0110), K.RENUKA (16U45A0108), K.AYYAPANAIIDU (16U45A0107), V.S.LALITHAMBA (15U41A0123), D.VAMSI (15U41A0105), for the fulfillment of the Degree of bachelor of technology in civil engineering to Jawaharlal Nehru Technological university- Kakinada is a record of bonified work carried out by them under my guidance and supervision.

Mrs.B.Ramya
Assistant Professor,
Project Guide.

B.Seshagiri Rao
H.O.D Civil Engineering.
Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

External Examiner

VAN DE GRAAFF GENERATOR

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

M.RAVI KISHORE	(16U45A0224)
M. MANIKANTA	(16U45A0222)
D.KISHORE	(16U45A0214)
A.SAIRAM	(15U41A0204)
A.LOKESH	(15U41A0202)

Under the Esteemed Guidance of

Mr. J.DELEEP KUMAR, M.Tech

Assistant Professor, Department of EEE



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the project report entitled "VAN DE GRAAFF GENERATOR" submitted by M.RAVI KISHORE (16U450224), M.MANIKANTA (16U45A0222), D.KISHORE (16U45A0214), A.SAIRAMI (15U41A0204), A.LOKESH (15U41A0202) in partial fulfillment of the requirements for award of the Degree of Bachelor of Technology in Electrical & Electronics Engineering, from DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (approved by A.I.C.T.E., New Delhi & Affiliated to JNTU, Kakinada) is a record of bona fide work carried out by them under my guidance and supervision.

Mr. J. DELEEP KUMAR,

Assistant Professor,
(Project guide)

Mr. K. VIJAY KUMAR,

Professor,
(Head of the Department)

01/04/19

EXTERNAL EXAMINER

**AUTOMATIC ELECTRONIC TOLL
COLLECTION USING RFID SYSTEM**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

D.JEEVAN MADHU SAI REDDY	(15U41A0209)
P.VIJAY KUMAR REDDY	(15U41A0222)
G.SRINU	(15U41A0213)
A.MURALI SATISH	(15U41A0203)
N.MADHURI	(15U41A0220)

*Under the Esteemed Guidance of
Smt. A.LAKSHMI DURGA,*

Asst.Professor, Dept. of EEE



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

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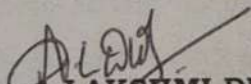
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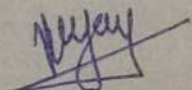
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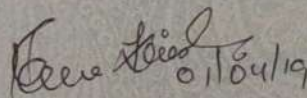
NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "AUTOMATIC ELECTRONIC TOLL COLLECTION USING RFID SYSTEM" is a being submitted by D JEEVAN MADHU SAI REDDY (15U41A0209), P VIJAY KUMAR REDDY (15U41A0222), G SRINU (15U41A0213), A MURALI SATISH (15U41A0203), N.MADHURI (15U41A0220) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2018-19.


Mrs. A. LAKSHMI DURGA
(Assistant Professor)
(PROJECT GUIDE)


Mr. K. VIJAY KUMAR
(Associate Professor)
(HEAD OF THE DEPARTMENT)


EXTERNAL EXAMINER

CLOSED LOOP SPEED CONTROL OF BLDC MOTOR USING MICRO CONTROLLER

*A project report submitted in partial
Fulfillment of the requirement for the award of Degree of
BACHELOR OF TECHNOLOGY*

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

A.JYOTHSNA	16U45A0201
K.HARSHITHA	16U45A0211
M.TEJA SREE	16U45A0223
A.DURGA MAHESH	15U41A0201
U.VINAY	15U41A0225

Under the Estimated Guidance of

Mr. G.JAGADEESH

Assistant Professor, Department of EEE



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2019

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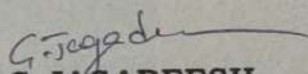
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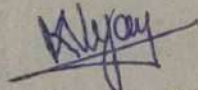
CERTIFICATE

This is to certify that the Project work entitled "closed loop speed control of BLDC motor using microcontroller" is a being submitted by A JYOTHSNA (16U45A0201), K HARSHITHA (16U45A0211), M TEJA SREE (16U45A0223), A DURGA MAHESH (15U41A0201), U VINAY (15U41A0225) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2018-19.


Mr. G. JAGADEESH

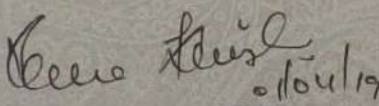
(ASSISTANT PROFESSOR)

(PROJECT GUIDE)


Mr. K. VIJAY KUMAR

(ASSOCIATE PROFESSOR)

(HEAD OF THE DEPARTMENT)


EXTERNAL EXAMINER

**AUTOMATIC VEHICLE DETECTING STREET LIGHTS
USING ARDUINO**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

N.GANESH	16U45A0215
P.DEVENDRA	16U45A0216
A.NANI	15U41A0205
E.LIKITHA	15U41A0210

Under the Esteemed Guidance of

Mr. J.DELEEP KUMAR, M.Tech

Assistant Professor, Department Of EEE



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "AUTOMATIC VEHICLE DETECTING STREET LIGHTS" is a being submitted by N.GANESH (16U45A0215), P.DEVENDRA (16U45A0216), E.LIKITHA (15U41A0210), A.NANI (15U41A0205), M.PRASAD (15U41A0218) in partial fulfillment of the requirements for award of the Degree of Bachelor of Technology in Electrical & Electronics Engineering, from DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (approved by A.I.C.T.E., New Delhi & Affiliated to JNTU, Kakinada) is a record of bona fide work carried out by them under my guidance and supervision.

Mr. J.DELEEP KUMAR,
(ASSISTANT PROFESSOR)
(PROJECT GUIDE)

Mr. K.VIJAY KUMAR,
(PROFESSOR)
(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER 01/04/19

**DESIGN AND IMPLEMENTATION OF OFF GRID
2KW_p PV SYSTEM WITH MPPT FOR
ILLUMINATION OF LED LIGHTS**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

D.LAVANYA

16U45A0204

M.PANKAJ

15U41A0219

V.SAI KIRAN

15U41A0226

D.KASU BABU

16U45A0205

M.ASHOK BABU

16U45A0213

Under the Esteemed Guidance of
Mr. M. RAJENDRA PRASAD
Assistant Professor, Department of EEE



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2019



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

CERTIFICATE

This is to certify that the project report entitled "**DESIGN AND IMPLEMENTATION OF OFF GRID 2KW_p PV SYSTEM WITH MPPT FOR ILLUMINATION OF LED LIGHTS.**" submitted by D.LAVANYA (16U45A0204), M.PANKAJ(15U41A0219), V.SAI KIRAN (15U41A0226), D.KASUBABU(16U45A0205), M.ASHOK BABU (16U45A0213) in partial fulfilment of the requirements for award of the Degree of Bachelor of Technology in *Electrical & Electronics Engineering*, from DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (approved by A.I.C.T.E., New Delhi & Affiliated to JNTU, Kakinada) is a record of bona fide work carried out by them under my guidance and supervision.

Mr. M. RAJENDRA PRASAD
Assistant Professor
PROJECT GUIDE

Mr. K. VIJAY KUMAR
Associate professor
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

**DESIGN AND IMPLEMENTATION OF OFF GRID
2KWP PV SYSTEM WITH MPPT FOR
ILLUMINATION OF LED LIGHTS**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

L.SIMHACHALAM NAIDU	16U45A0250
P.VIJAY SAI KUMAR	16U45A0229
L.YASWANTH	16U45A0251
K.KASI APPALA RAJU	16U45A0246
S.GANGADHAR	16U45A0270

Under the Esteemed Guidance of

Mr. M. RAJA RAO

Assistant Professor, Department of EEE



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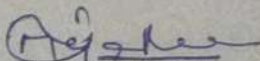
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CERTIFICATE

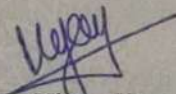
This is to certify that the project report entitled "**DESIGN AND IMPLEMENTATION OF OFF GRID 2KWP PV SYSTEM WITH MPPT FOR ILLUMINATION OF LED LIGHTS.**" submitted by L.SIMHACHALAM NAIDU(16U45A0250), P.VIJAY SAI KUMAR (16U45A0229),L.YASWANTH(16U45A0251), K.KASI APPALA RAJU (16U45A0246),S.GANGADHAR (16U45A0270) in partial fulfilment of the requirements for award of the Degree of Bachelor of Technology in *Electrical & Electronics Engineering*, from DADI INSTITUTE OF ENGINEERING&TECHNOLOGY (approved by A.I.C.T.E., New Delhi & Affiliated to JNTU, Kakinada) is a record of bona fide work carried out by them under my guidance and supervision.



Mr. M. Raja Rao

Assistant Professor


PROJECT GUIDE



Mr. K. Vijay Kumar

Associate professor

HEAD OF THE DEPARTMENT



EXTERNAL EXAMINER

MICROCONTROLLER BASED SINGLE AXIS SOLAR TRACKING CONTROL OF PHOTOVOLTAIC PANELS USING STEPPER MOTOR

A project report submitted in partial
Fulfillment of the requirement for the award of the B.Tech in
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

L.NARESH	16U45A0249
O.APPALA NAIDU	16U45A0269
B.NANIBABU	16U45A0243
K.VENKATESH	16U45A0273
P.RAMESH	16U45A0254

Under the Esteemed Guidance of

Miss. P.JAGRUTHI,

Assistant Professor, Dept. of EEE

DIET, ANAKAPALLE



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National Highway-16, Anakapalle-531002, Visakhapatnam Dist., A.P.

2019



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National Highway-16, Anakapalle-531002, Visakhapatnam Dist., A.P.

CERTIFICATE

This is to certify that the project work entitled "MICROCONTROLLER BASED SINGLE AXIS SOLAR TRACKING CONTROL OF PHOTOVOLTAIC PANELS USING STEPPER MOTOR" has been carried out by L.NARESH (16U45A0249), B.NANIBABU (16U45A0243), K.VENKATESH (16U45A0273), P.RAMESH (16U45A0254), O.APPALA NAIDU (16U45A0269) Submitted in partial fulfillment of the requirement for the Award of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2018-2019.

Miss. P.JAGRUTHI,

(Assistant Professor)

(Project guide)

Mr. K.VIJAYKUMAR,

(Associate Professor)

(Head of the department)

External Examiner

**DENSITY BASED TRAFFIC LIGHT TIMING CONTROL
SYSTEM**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*
BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

M.HEMA LATHA	16U45A0226
P. MAHINDRA VARMA	16U45A0228
P. CHAITANYA	16U45A0230
T. SANTOSH KUMAR	16U45A0260

Under the Esteemed Guidance of
Mrs. A. LAKSHMI DURGA
Assistant Professor, Department of EEE



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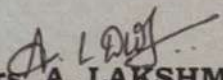
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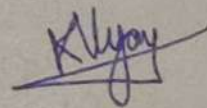
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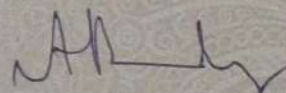
NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "DENSITY BASED TRAFFIC LIGHT TIMING CONTROL SYSTEM" is a being submitted by M. HEMA LATHA (16U45A0226), P.MAHINDRA VARMA(16U45A0228),P.CHAITANYA (16U45A0230), T. SANTOSH KUMAR (16U45A0260), in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL AND ELETRONICS ENGINEERING during the academic year 2018-2019.


Mrs. A. LAKSHMI DURGA
(ASSISTANT PROFESSOR)
(PROJECT GUIDE)


Mr. K. VIJAY KUMAR
(ASSOCIATE PROFESSOR)
(HEAD OF THE DEPARTMENT)


EXTERNAL EXAMINER

**DESIGN AND PERFORMANCE EVALUATION OF AN
ELECTRIC VEHICLE BY USING BRUSHLESS DC
MOTOR**

*A Project Report submitted in partial fulfillment of the requirements
for the award of the Degree of*

BACHELOR OF TECHNOLOGY

In

ELECTRICAL & ELECTRONICS ENGINEERING

By

G.RAJ SEKHAR	(16U45A0264)
S.KALYAN	(16U45A0232)
M.RAJASEKHAR	(16U45A0266)
SK.VALLI BABU	(16U45A0238)
M.BASKHAR	(16U45A0272)

Under the Esteemed guidance of

Mr. D.R.CH.NOOKESH

Assistant Professor, Department of EEE



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the project report entitled "DESIGN AND PERFORMANCE EVALUATION OF AN ELECTRIC VEHICLE BY USING BRUSHLESS DC MOTOR" submitted by G.RAJ SEKHAR (16U45A0264), S.KALYAN (16U45A0232), M.RAJASEKHAR (16U45A0266), SK.VALLI BABU (16U45A0238), M.BASKHAR (16U45A0272) in partial fulfillment of the requirement for award of the Degree of Bachelor of Technology in *Electrical & Electronics Engineering*, during the academic year 2018-19.

Mr. D.R.CH.NOOKESH
(ASSISTANT PROFESSOR)

PROJECT GUIDE

Mr. K.VIJAY KUMAR
(ASSOCIATE PROFESSOR)

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

**DESIGN AND IMPLEMENTATION OF OFF GRID
2KWP PV SYSTEM WITH MPPT FOR
ILLUMINATION OF LED LIGHTS** 23

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

S.DEVI	16U45A0231
V.VINETHRI	16U45A0234
K.DAYESHWAR RAO	16U45A0239
N.N.V.S.VARAPRASAD	16U45A0253

Under the Esteemed Guidance of
Mr. G. JAGADEESH
Assistant Professor, Department of EEE



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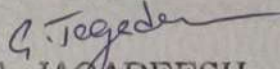
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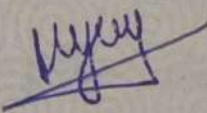
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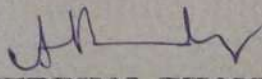
NH-5, Anakapalle-531002, Visakhapatnam, A.P.

CERTIFICATE

This is to certify that the project report entitled "**DESIGN AND IMPLEMENTATION OF OFF GRID 2KWP PV SYSTEM WITH MPPT FOR ILLUMINATION OF LED LIGHTS.**" submitted by S.DEVI (16U45A0231), V.VINETHRI (16U45A0234), K.DAYESHWAR RAO (16U45A0239), N.N.V.S.VARAPRASAD (16U45A0253), in partial fulfilment of the requirements for award of the Degree of Bachelor of Technology in *Electrical & Electronics Engineering*, from DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (approved by A.I.C.T.E., New Delhi & Affiliated to JNTU, Kakinada) is a record of bona fide work carried out by them under my guidance and supervision.


Mr. G. JACADEESH
Assistant Professor
PROJECT GUIDE


Mr. K. VIJAY KUMAR
Associate professor
HEAD OF THE DEPARTMENT


EXTERNAL EXAMINER

**DESIGN AND IMPLEMENTATION OF OFF GRID
2KW_p PV SYSTEM WITH MPPT FOR
ILLUMINATION OF LED LIGHTS**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

S.SAI KUMAR	16U45A0257
S.VENKATA SATHISH	16U45A0258
R.J.VENKATA SAI	16U45A0256
S.SAI KUMAR	16U45A0259
M.SARATH KUMAR	16U45A0252

Under the Esteemed Guidance of

Mr. K. VIJAY KUMAR

Associate Professor & Head, Department of EEE



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

CERTIFICATE

This is to certify that the project report entitled "**DESIGN AND IMPLEMENTATION OF OFF GRID 2KW_p PV SYSTEM WITH MPPT FOR ILLUMINATION OF LED LIGHTS.**" submitted by S.SAI KUMAR (16U45A0257), S.VENKATA SATHISH (16U45A0258), R.J.VENKATA SAI (16U45A0256), S.SAI KUMAR (16U45A0259), M.SARATH KUMAR (16U45A0252) in partial fulfilment of the requirements for award of the Degree of Bachelor of Technology in *Electrical & Electronics Engineering*, from DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (approved by A.I.C.T.E., New Delhi & Affiliated to JNTU, Kakinada) is a record of bona fide work carried out by them under my guidance and supervision.

Mr. K. VIJAY KUMAR

Associate Professor

PROJECT GUIDE

Mr. K. VIJAY KUMAR

Associate professor

HEAD, DEPARTMENT OF EEE

EXTERNAL EXAMINER

**IR SENSOR BASED CRACK DETECTION OF
RAILWAY TRACK USING GSM AND GPS SYSTEM**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

M.ASHOK	16U45A0236
A.PRAVALLIKA	16U45A0242
K.NEELIMA	16U45A0248
R.MOHAN	16U45A0268
A.NAVEEN	16U45A0241

Under the Esteemed Guidance of
Ms.B.SOWJANYA KALYANI
Assistant Professor, Dept. of EEE



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CERTIFICATE

This is to certify that the Project work entitled "**IR SENSOR BASED CRACK DETECTION OF RAILWAY TRACK USING GSM AND GPS SYSTEM**" is a being submitted by M.ASHOK (16U45A0236), A.PRAVALLIKA (16U45A0242), K.NEELIMA (16U45A0248), R.MOHAN (16U45A0268), A.NAVEEN (16U45A0241) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2016-19.

B.S. Kalyani

Ms.B.Sowjanya kalyani

(ASST.Professor)

(PROJECT GUIDE)

Vijay

Mr.K.Vijay Kumar

(ASSOC.PROFESSOR)

(HEAD OF THE DEPARTMENT)

[Signature]

EXTERNAL EXAMINER

**DESIGN AND PERFORMANCE EVALUATION OF AN
ELECTRIC VEHICLE BY USING BRUSHLESS DC
MOTOR**

*A Project Report submitted in partial fulfillment of the requirements
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BACHELOR OF TECHNOLOGY

In

ELECTRICAL & ELECTRONICS ENGINEERING

By

K.NAGAGANESH	(16U45A0237)
A.HARI KRISHNA	(16U45A0271)
P.RAM CHARAN	(16U45A0255)
T.H.SAI KUMAR	(16U45A0261)
Y.GOVIND	(16U45A0262)

Under the Esteemed guidance of

Mr.A. Krishna Nag

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CERTIFICATE

This is to certify that the project report entitled "DESIGN AND PERFORMANCE EVALUATION OF AN ELECTRIC VEHICLE BY USING BRUSHLESS DC MOTOR" submitted by K.NAGAGANESH (16U45A0237), A.HARI KRISHNA (16U45A0271), P.RAMCHARAN (16U45A0255), T.H.SAI KUMAR (16U45A0261), Y.GOVIND (16U45A0262) in partial fulfillment of the requirement for award of the Degree of Bachelor of Technology in *Electrical & Electronics Engineering*, during the academic year 2018-19.

Mr.A.KRISHNA NAG

(ASSISTANT PROFESSOR)

PROJECT GUIDE

Mr. K.VIJAY KUMAR

(ASSOCIATE PROFESSOR)

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

**GPS BASED VEHICLE TRACKING SYSTEM USING
WI-FI MODULE**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*
BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

K.BHARGAVI	16U45A0413
P.VISWATEJA	16U45A0422
M.ANUSHA	16U45A0425
K.LOVA GANGAMANI	16U45A0412
S.VASU DILIP	16U45A0426

Under the Esteemed Guidance of

Mr.K.S.N.V Someswara Rao, M.Tech.,

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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that project entitled "GPS BASED VEHICLE TRACKING SYSTEM USING Wi-Fi MODULE", being submitted by K.BHARGAVI, P.VISWA TEJA, M.ANUSHA, K.LOVA GANGA MANI, S.VASU DILIP bearing the Regd. No's:16U45A0413, 16U45A0422, 16U45A0425, 16U45A0412, 16U45A0426 in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project have not been submitted to any other University or Institute for the award of any degree or diploma.

Mr.K.S.N.V.Someswara Rao,

M.Tech,Assistant Professor

(PROJECT GUIDE)

Mr.K.Jogi Naidu,

Sr.Assistant Professor

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

**DESIGN OF A COMPACT METAMATERIAL MULTIBAND
ANTENNA FOR WLAN/WIMAX/ITU BAND APPLICATIONS**

*A Project Report submitted in partial fulfillment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

P.PARAMESWARA RAO

16U45A0419

R.JHANSI RANI

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16U45A0432

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CERTIFICATE

This is to certify that project entitled "DESIGN OF A COMPACT METAMATERIAL MULTIBAND ANTENNA FOR WLAN/WIMAX/ITU BAND APPLICATIONS", being submitted by P.PARAMESWARA RAO, R.JHANSI RANI, B.JYOTHSNA, Y.ANUSHA, K.RAJA SEKHAR bearing Roll no: 16U45A0419, 16U45A0424, 16U45A0435, 16U45A0429, 16U45A0432 in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by them under my guidance and supervision.

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

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Mrs.P.POORNA PRIYA

(ASSISTANT PROFESSOR)

(PROJECT GUIDE)

K. Jogi Naidu

MR.K.JOGI NAIDU

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(HEAD OF THE DEPARTMENT)

Srinivasulu

EXTERNAL EXAMINER

**DESIGN OF NEW LOW-POWER AND AREA EFFICIENT
FULL ADDER FOR ARITHMETIC APPLICATIONS**

*A Project Report submitted in partial fulfillment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

P. Santosh kumar	15U41A0432
G. Vaishnavi	15U41A0411
Y. Sri Latha	15U41A0448
M. Kasi Viswanadham	15U41A0427
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Mr. K. JOGI NAIDU

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This is to certify that project entitled “ DESIGN OF NEW LOW-POWER AND AREA EFFICIENT FULL ADDER FOR ARITHMETIC APPLICATIONS ”, being submitted by P. Santosh kumar (15U41A0432), G. Vaishnavi (15U41A0411), Y. Sri Latha (15U41A0448), M. Kasi Viswanadham (15U41A0427), S S V Chiranjeevi (15U41A0450) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of bonafied work carried out by him under my guidance and supervision.

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

Mr. K. Jogi Naidu

(Assistant Professor of ECE)

(PROJECT SUPERVISOR)

Mr. K. Jogi Naidu

(Assistant Professor of ECE)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

**HARTLEY TRANSFORM BASED OFDM FOR
OPTICAL FIBER COMMUNICATION**

*A Project Report submitted in partial fulfillment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

P.SRAVANI	16U45A0420
K.RAGADEEPIKA	16U45A0415
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CERTIFICATE

This is to certify that the Project work entitled "HARTLEY TRANSFORM BASED OFDM FOR OPTICAL FIBER COMMUNICATION" is a being submitted by P.SRAVANI, K.RAGADEEPIKA, M.K.L.SURYA KALA, K.SHANMUKH SAI, K.LOKESH in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2018-19.

S. Suresh Kumar

Mr. S. SURESH KUMAR
ASSISTANT PROFESSOR
(PROJECT GUIDE)

K. Jogi Naidu

Mr. K. JOGI NAIDU
ASSISTANT PROFESSOR
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Srinivas Rao

EXTERNAL EXAMINER

MULTIFACETED ROBOT

*A Project Report submitted in partial fulfillment of the requirements
For the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

G.VANI	16U45A0407
K.SOWMYA	16U45A0414
J.SUNITHA	16U45A0409
K.SHIVA	16U45A0410
P.H.K.S.N.D.S.KUMAR	16U45A0421
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CERTIFICATE

This is to certify that the project work entitled "MULTIFACETED ROBOT" is being submitted by G.Vani(16U45A0407),K. Sowmya(16U45A0414), J.Sunitha (16U45A0409), K. Shiva (16U45A0410), P.H.K.S.N.D.S .Kumar (16U45A0421), K.Shyam ganesh (16U45A0438) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafied work carried out by them under my guidance and supervision.

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

Mrs. D L Mythri

(Asst. Professor of ECE)

(PROJECT SUPERVISOR)

Mr. K Jogi Naidu

(Asst. Professor of ECE)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

DESIGN OF NEW DOUBLE TAIL COMPARATOR WITH LOW VOLTAGE LOW POWER AND AREA EFFICIENT

*A Project Report submitted in partial fulfillment of the requirements
for the award of the Degree of*

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

P. SUSHMITA	15U41A0433
M. PRAVALLIKA	15U41A0426
D. ROHINI	15U41A0407
K. PREM KUMAR	15U41A0422
K. KRISHNAVENI	15U41A0413

**Under the Esteemed Guidance of
Miss. Sheik Shabeena
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DECLARATION

CERTIFICATE

This is to certify that project entitled "DESIGN OF NEW DOUBLE TAIL COMPARATOR WITH LOW VOLTAGE LOW POWER AND AREA EFFICIENT", being submitted by P.SUSHMITA (15U41A0433), M.PRAVALLIKA (15U41A0426), D.ROHINI (15U41A0407), K.PREM KUMAR (15U41A0422), K.KRISHNAVENI (15U41A0413) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by them under my guidance and supervision.

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

Miss. Sheik Shabeena

(Assistant Professor)

(PROJECT GUIDE)

Mr. K. Jogi Naidu

(Assistant Professor)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

MULTIFACETED ROBOT

*A Project Report submitted in partial fulfillment of the requirements
For the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

P. Jayasree	16U45A0423
V. Vasudev	16U45A0428
L. Sai kumar	16U45A0416
K. Durga Nagmani	16U45A0433
A. Durga Prasad	16U45A0401

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This is to certify that the project work entitled " MULTIFACETED ROBOT " is being submitted by P. JAYASREE, V. VASUDEV, L. SAI KUMAR, K. DURGA NAGAMANI, A. DURGA PRASAD in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2018-19.

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ASSISTANT PROFESSOR

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Mr. K. JOGI NAIDU

ASSISTANT PROFESSOR

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

FIRE FIGHTING ROBOT

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

M.SAI CHARAN	(15U41A0430)
M.SHYAMALA	(15U41A0431)
S.PRIYANKA	(15U41A0440)
V.GOVINDA RAJU	(15U41A0447)
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CERTIFICATE

This is to certify that the Project work entitled "FIRE FIGHTING ROBOT" is a being submitted by M.SAI CHARAN (15U41A0430), M. SHYAMALA (15U41A0431), S.PRIYANKA (15U41A0440), V.GOVINDA RAJU (15U41A0447), BUPINDER KAUR (15U41A0452) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION & ENGINEERING during the academic year 2018-19.

Ms. K. Suma

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Mr. K Jogi Naidu

Sr. Assistant Professor of ECE

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EXTERNAL EXAMINER

MULTIFACETED ROBOT

*A Project Report submitted in partial fulfillment of the requirements
For the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

G JAGADEESH	(15U41A0410)
K V L DEVI	(15U41A0417)
CH MALATHI	(15U41A0405)
K REVATHI	(15U41A0414)
A LOCHAN	(15U41A0403)

Under the Esteemed Guidance of

Mrs. D L MYTHRI
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CERTIFICATE

This is to certify that the project work entitled "MULTIFACETED ROBOT" is being submitted by G JAGADEESH (15U41A0410), K V L DEVI (15U41A0417), CH MALATHI (15U41A0405), K REVATHI (15U41A0417), A LOCHAN (15U41A0403) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafied work carried out by them under my guidance and supervision.

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

Mrs. D L Mythri

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(PROJECT SUPERVISOR)

Mr. K Jogi Naidu

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(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

FIRE FIGHTING ROBOT

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*
BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

K.KIRANMAYI	(15U41A0412)
M.BHARATHI	(15U41A0429)
K.PRUDHVI RAJ	(15U41A0420)
M.JYOTHI	(15U41A0425)
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This is to certify that the Project work entitled "FIRE FIGHTING ROBOT" is a being submitted by K.KIRANMAYI (15U41A0412), M. BHARATHI (15U41A0429), K.PRUDHVI RAJ (15U41A0420), M.JYOTHI (15U41A0425), M.LIVINGSTON (15U41A0428) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION & ENGINEERING during the academic year 2018-19.

Mrs. B.T. Archana

Assistant Professor of ECE

(PROJECT GUIDE)

Mr. K Jogi Naidu

Sr. Assistant Professor of ECE

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

IMPLEMENTATION OF AREA EFFICIENT SRAM CELL

*A Project Report submitted in partial fulfillment of the requirements
for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

K. SOWMYA	15U41A0415
M. LATA SRI	15U41A0423
M. GOWTHAMI	15U41A0424
R. YASODHA VANAJA	15U41A0439
V. JAYA CHANDRIKA	15U41A0445

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**Miss. Sheik Shabeena
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This is to certify that project entitled “IMPLEMENTATION OF AREA EFFICIENT SRAM CELL”, being submitted by K. SOWMYA (15U41A0415), M. LATA SRI (15U41A0423), M. GOWTHAMI (15U41A0424), R. YASODHA VANAJA (15U41A0439), V. JAYA CHANDRIKA (15U41A0445) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by them under my guidance and supervision.

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

Miss. Sheik Shabeena

(Assistant Professor)

(PROJECT GUIDE)

Mr. K. Jogi Naidu

(Assistant Professor)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

**MEASUREMENT OF TEMPERATURE AND
RELATIVE HUMIDITY, DISPLAY OF SCROLLING
MESSAGE ON LED DISPLAY BY USING
BLUETOOTH INTERFACE WITH ARDUINO NANO**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY
IN
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

K. BHARGAVI	15U41A0419
Y. HEPSIBA	15U41A0449
G. SRI RAMYA	15U41A0451
P. TARUN KUMAR	15U45A0438
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**Under the Esteemed Guidance of
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National Highway -5, Anakapalle - 531002, Visakhapatnam Dist., A.P.

CERTIFICATE

This is to certify that project entitled "MEASUREMENT OF TEMPERATURE AND RELATIVE HUMIDITY, DISPLAY OF SCROLLING MESSAGE ON LED DISPLAY BY USING BLUETOOTH INTERFACE WITH ARDUINO NANO", being submitted by K.BHARGAVI (15U41A0419), Y.HEPSIBA (15U41A0449), G.SRI RAMYA (15U41A0451), P.TARUN KUMAR(15U41A0438), S.VARAHALU (15U41A0450) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under my guidance and supervision.

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

Mr. Mohammad Shaffi

Assistant Professor

(PROJECT GUIDE)

Mr. K. Jogi Naidu

Assistant Professor

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

**MEASUREMENT OF TEMPERATURE AND
RELATIVE HUMIDITY, DISPLAY OF SCROLLING
MESSAGE ON LED DISPLAY BY USING
BLUETOOTH INTERFACE WITH ARDUINO NANO**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY
IN
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

CH.V.S.SOWMYA	15U41A0406
K.RENUKA	15U41A0416
B.LAXMI DEVI	15U41A0404
D.SUGUNA	15U41A0408
A.KALYAN NARAYAN	15U41A0402

Under the Esteemed Guidance of

Mr. D.Ravi Nayak

Assistant Professor, Department Of E.C.E



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2019



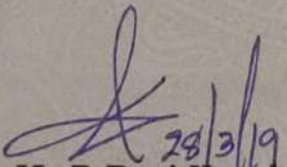
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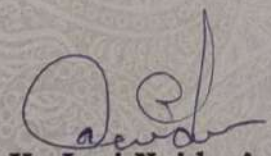
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CERTIFICATE

This is to certify that project entitled “MEASUREMENT OF TEMPERATURE AND RELATIVE HUMIDITY, DISPLAY OF SCROLLING MESSAGE ON LED DISPLAY BY USING BLUETOOTH INTERFACE WITH ARDUINO NANO”, being submitted by CH.V.S.SOWMYA (15U41A0406), K.RENUKA (15U41A0416), B.LAXMI DEVI (15U41A0404), D.SUGUNA (15U41A0408), A.KALYAN NARAYAN (15U41A0402) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under my guidance and supervision.

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


Mr. D. Ravi Nayak
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Mr. K. Jogi Naidu Assistant
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EXTERNAL EXAMINER

**PERFORMANCE ANALYSIS OF SRAM ARRAY
ARCHITECTURES**

*A Project Report submitted in partial fulfillment of the requirements
For the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

CH. JHANSI	16U45A0404
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This is to certify that the Project work entitled "PERFORMANCE ANALYSIS OF SRAM ARRAY ARCHITECTURES" is a being submitted by CH. JHANSI, D. HEMA LATHA, M. HARISH, D. N.V.S. NOOKA RAJU, A. SWATHI in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2018-19.

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Mr. K. JOGI NAIDU
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EXTERNAL EXAMINER

MEASUREMENT OF TEMPERATURE AND RELATIVE HUMIDITY, DISPLAY OF SCROLLING MESSAGE ON LED DISPLAY BY USING BLUETOOTH INTERFACE WITH ARDUINO NANO

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY
IN
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

K.V.S.RAVI TEJA	15U41A0418
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National Highway -5, Anakapalle - 531002, Visakhapatnam Dist., A.P.

CERTIFICATE

This is to certify that project entitled "MEASUREMENT OF TEMPERATURE AND RELATIVE HUMIDITY, DISPLAY OF SCROLLING MESSAGE ON LED DISPLAY BY USING BLUETOOTH INTERFACE WITH ARDUINO NANO", being submitted by K.V.S.RAVI TEJA (15U41A0418), S.MARTEENA KEZIA (15U41A0443), P.SNEHA (15U41A0435), S.SAI DEEPU (15U41A0441), V.SHIVAKUMAR (15U41A0444) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under my guidance and supervision.

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

Mr. Mohammad Shaffi

Assistant Professor

(PROJECT GUIDE)

Mr. K. Jogi Naidu

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EXTERNAL EXAMINER

**INTELLIGENT CONDITION MONITORING OF AIR
BLOWER USING INTERNET OF THINGS**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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R.RAVI KUMAR	15U41A05B6
Y.VENKATA PADMA	15U41A05D1

Under the Esteemed Guidance of
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This is to certify that the Project work entitled "INTELLIGENT CONDITION MONITORING OF AIR BLOWER USING INTERNET OF THINGS" is a being submitted by N.PRATHYUSHA, P.LIKITHA, R.RAVI KUMAR, Y.VENKATA PADMA in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2018-19.

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Anakapalle - 531 001

EXTERNAL EXAMINER

DESIGN OF REAL TIME HEAT SYSTEM AUTOMATION CONTROL USING INTERNET OF THINGS

*A Project Report submitted in partial fulfillment of the requirements
For the award of the Degree of*

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

Submitted by

P.HIMA LATHA	15U41A05A9
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T.KRANTHI KUMARI	15U41A05C2
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CERTIFICATE

This is to certify that the Project Work entitled "DESIGN OF REAL TIMEHEAT SYSTEM AUTOMATION CONTROL USING INTERNET OF THINGS" is being submitted by P.HIMALATHA (15U41A05A9), D.PRIYANKA (15U41A0585), G.BALAKRISHNA (15U41A0593), T.KRANTHI KUMARI (15U41A05C2), M.SAPTAGIRI(15U41A0599 in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2018-2019.

Mr. RAMARAJU S.V.S.V.P

(Sr. Assistant Professor)

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Dr.L.PRASANNA KUMAR

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(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

WEB POLLING

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

B. SRAVANI	15U41A0573
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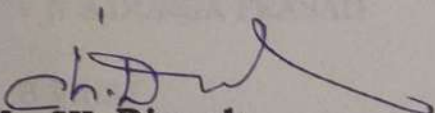
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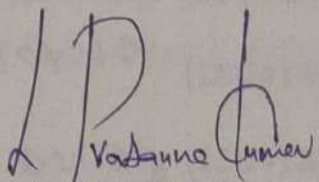
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This is to certify that the Project work entitled "WEB POLLING" is a being submitted by B SRAVANI (15U41A0573), V N S DURGA PRASAD (15U41A05C6), B VINAY (15U41A0580), B MANOJ KUMAR (15U41A0575), R HAREESH (15U41A05B0) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2018-19.



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EXTERNAL EXAMINER

PORTABLE PHISHING ATTACK TOOL

*A project report submitted in the partial fulfilment of
the requirements for the award of degree of*

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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16U45A0508

A.ANJANI

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A.YASASWINI

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CERTIFICATE

This is to certify that the project report entitled, "PORTABLE PHISHING ATTACK TOOL" is being submitted By M.CHANDRAJA(16U45A0508), A. ANJANI (16U45A0501), A.YASASWINI (15U41A0572), P.DANTESWARI (15U41A05A3), M.HAKIL(15U41A0595) in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY OF COMPUTER SCIENCE AND TECHNOLOGY during the academic year 2018-2019.

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Head of the Department,
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Anakapalle - 531 001

EXTERNAL EXAMINER

**STUDENT MONITORING SYSTEM USING
FACE RECOGNITION TECHNIQUE**
*A Project Report submitted in partial fulfillment of the
requirements for the award of the Degree of*
BACHELOR OF TECHNOLOGY

IN
COMPUTER SCIENCE AND ENGINEERING

Submitted by

P. VASANTHA KUMARI	15U41A05A8
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G.SASHANK	15U41A0592
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Under the Esteemed Guidance of
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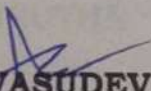
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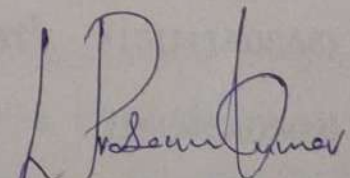
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This is to certify that the Project work entitled "STUDENT MONITORING SYSTEM USING FACE RECOGNITION TECHNIQUE" is a being submitted by P VASANTHA KUMARI (15U41A05A8), D AMRUTHA (16U45A0502), S SAGAR SAI SARAN (15U41A0596), G SASHANK (15U41A0592), V ALEKYA (15U41A05C8) in partial fulfillment of the Requirement for award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2017-18.


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EXTERNAL EXAMINER

**SEMANTIC-BASED COMPOUND KEYWORD
SEARCH OVER ENCRYPTED CLOUD DATA**

*A Project Report submitted in partial fulfillment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

P MOUNIKA	15U41A05A6
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EXTERNAL EXAMINER

**TWITTER SENTIMENT ANALYSIS USING
MACHINE LEARNING ON PYTHON**

*A Project Report submitted in partial fulfillment of
the requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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15U41A05C3

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15U41A05B5

G.DIVYASREE

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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "TWITTER SENTIMENT ANALYSIS USING MACHINE LEARNING ON PYTHON" is a being submitted by V.POORNIMA VARALAKSHMI (15U41A05C3), G.VIJAYALAKSHMI (15U41A0588), R.SREE NAVYA(15U41A05B5), G.DIVYASREE (15U41A0587), in partial fulfillment of the Requirement for the award of the degree of BACHEOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2018-2019

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Anakapalle - 531 001

EXTERNAL EXAMINER

GPS BUS TRACKING SYSTEM

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

D.APOORVA BINDU PRIYA

15U41A0582

K.GAYATRI

15U41A0597

G.SASANK

15U41A0589

D.MANOJ KUMAR

15U41A0581

B.MANIKUMAR

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CERTIFICATE

This is to certify that the Project Work entitled "GPS BUS TRACKING SYSTEM" is a bonafide work done by D APOORVA BINDU PRIYA (Reg.No: 15U41A0582), K GAYATRI (Reg.No: 15U41A0597), G SASANK (Reg.No: 15U41A0589), D MANOJ KUMAR (Reg.No: 15U41A0581), B MANI KUMAR (Reg.No: 15U41A0578) in partial fulfillment of the curriculum of Bachelor of Technology in Computer Science & Engineering during the academic year 2018-2019.

Smt. K SRI LAKSHMI

(ASSOCIATE PROFESSOR)

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Dr. L. PRASANNA KUMAR

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Computer Science and Engg

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EXTERNAL EXAMINER

IOT BASED DRUNK DRIVER DETECTION

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

P. KUMUDINIDEVI	15U41A05A4
B. JYOTHSNA PRAVALLIKA	15U41A0577
V. VANAJA	15U41A05C7
B. PRADEEP CHANDU	15U41A0576
B. DHANA LAKSHMI	15U41A0574

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CERTIFICATE

This is to certify that the Project work entitled "IOT BASED DRUNK DRIVER DETECTION" is a being submitted by P KUMUDINIDEVI (15U41A05A4), B JYOTHSNA PRAVALLIKA (15U41A0577), V VANAJA (15U41A05C7), B PRADEEP CHANDU (15U41A0576), B DHANA LAKSHMI (15U41A0574) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2018-19.

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EXTERNAL EXAMINER

**FINGERPRINT BASED LIBRARY
ATTENDANCE SYSTEM**

*A Project Report submitted in partial fulfilment of
the requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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15U41A05B8

R.YAMINI

15U41A05B2

R.SHARMILA

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D.VASANTHI

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This is to certify that the Project work entitled "FINGERPRINT BASED LIBRARY ATTENDENCE SYSTEM" is a being submitted by S. JAYAKRISHNA (15U41A05B8), R.YAMINI(15U41A05B2), R.SHARMILA (15U41A05B1), D.VASANTHI (15U41A05D0), IRFANA (15U41A0594) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2018-19.

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EXTERNAL EXAMINER

AUTOMATED HELP ASSISTANCE SYSTEM
*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*
BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted by

K. JYOTHI RAMANA KUMARI	16U45A0503
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EXTERNAL EXAMINER

SUPERMAN
SECURITY USING PRE-EXISTENCE
ROUTING FOR MOBILE AD HOC NETWORKS

A Project Report submitted in partial fulfillment of the
requirements for the award of the Degree of
BACHELOR OF TECHNOLOGY

IN
COMPUTER SCIENCE AND ENGINEERING

Submitted by

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PILLA NEHARIKA	(15U41A0560)
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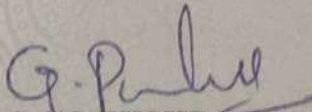
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CERTIFICATE

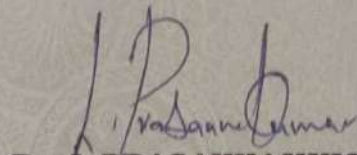
This is to certify that the Project work entitled "SECURITY USING PRE-EXISTING ROUTING FOR MOBILE ADHOC NETWORKS" is a being submitted by P.JAYASREE (15U41A0554) , P.NEHARIKA (15U41A0560) , P. HIMA BINDU (15U41A0558) , K. PAVAN KUMAR (15U41A0525) partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2019.



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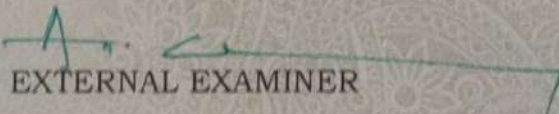
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EXTERNAL EXAMINER

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**IMAGE RECONSTRUCTION USING MATCHED
WAVELET FOR PARTIAL CANONICAL IDENTITY
MATRIX IMAGES**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*
MASTER OF TECHNOLOGY

IN
SYSTEMS AND SIGNAL PROCESSING

Submitted by

CH. ASHOK VARDHAN

Regd. No.15U41D4501

Under the Esteemed Guidance of

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Assistant Professor, Department of ECE



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This is to certify that the Project work entitled "IMAGE RECONSTRUCTION USING MATCHED WAVELET FOR PARTIAL CANONICAL IDENTITY MATRIX IMAGES" is a being submitted by CH. ASHOK VARDHAN (15U41D4501) in partial fulfilment of the Requirement for the award of the degree of MASTER OF TECHNOLOGY for SYSTEMS AND SIGNAL PROCESSING during the academic year 2015-2017.

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EXTERNAL EXAMINER

ABSTRACT

In the present era of digital world, compressive sensing (CS) for images is essential to reduce the requirement of bandwidth in terms of transmission and storage of images. In CS application, compared to standard wavelets as sparsifying basis, matched wavelet may provide better reconstruction results. Matched wavelet can be easily designed if full image is available, in CS application only compressively sensed images are available instead of full images. So that existing methods of designing matched wavelets cannot be used.

Thus a joint framework is proposed, that estimates matched wavelets from compressively sensed images and also reconstructs full images. This method has three significant contributions. First, lifting-based, image matched separable wavelet is designed from compressively sensed images and is also used to reconstruct. Second, a simple sensing matrix is employed to sample data at sub-Nyquist rate such that sensing and reconstruction time is reduced. Third, a new multi-level L-Pyramid wavelet decomposition strategy is provided for separable wavelet implementation on images that leads to improved reconstruction performance. Compared to compressive sensing based reconstruction using standard wavelets with Gaussian sensing matrix and with existing wavelet decomposition strategy, the proposed methodology provides faster and better image reconstruction in compressive sensing application.

Keywords: Compressive sensing, Matched wavelet, Lifting, PCI matrix, Wavelet decomposition

**WEIGHTED LEVEL SET EVOLUTION METHOD FOR
MEDICAL IMAGE SEGMENTATION**

*A Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

MASTER OF TECHNOLOGY

IN

SYSTEMS AND SIGNAL PROCESSING

Submitted by

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This is to certify that the Project work entitled "WEIGHTED LEVEL SET EVOLUTION METHOD FOR MEDICAL IMAGE SEGMENTATION" is a being submitted R.BHAVANI RAO(15U41D4503) in partial fulfilment of the Requirement for the award of the degree of MASTER OF TECHNOLOGY for SYSTEMS AND SIGNAL PROCESSING during the academic year 2015-17.

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EXTERNAL EXAMINER

ABSTRACT

Now a day's Image segmentation is a fundamental problem and complex task in the field of image processing and computer vision, because the segmentation result will directly affect the performance of the subsequent processing steps. A major problem for medical image segmentation is the intensity inhomogeneity due to the bias field, which is caused by various factors, such as spatial variations in illumination and imperfections of imaging devices. The bias field can cause serious misclassifications for medical images due to the overlaps between the ranges of the intensities in different tissue regions. As a result, the voxels in different tissues are hard to separate only based on the intensity information.

To overcome this problem we propose a method based on active contours implemented using level set methods for segmentation of such medical images. The proposed method uses a level set evolution that is based on the minimization of an objective energy functional whose energy terms are weighted according to their relative importance in detecting boundaries. This relative importance is computed based on local edge features collected from the adjacent region located inside and outside of the evolving contour. The local edge features employed are the edge intensity and the degree of alignment between the image's gradient vector flow field and the evolving contour's normal. The proposed method demonstrates that it can successfully achieve segmentation for MR brain images to help pathologists distinguish exactly lesion size and region.

Keywords: Image segmentation, medical images, active contours, level set methods.