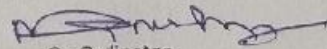
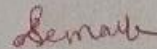



CE6811 RESEARCH PROJECT

S.No	Batch	REG.NO	NAME	GUIDE	TITLE
1	Batch 1	810715103001	ABOORVARAJ K	Dr.P.V.PREMALATHA	FINITE ELEMENT ANALYSIS ON BACK TO BACK MSE WALL
2		810715103026	MOHAMED ZOHEB M		
3		810715103303	GOWTHAM.G		
4		810715103306	SANKARANARAYANAN.G		
1	Batch 2	810715103038	SRIRAM N	Dr.P.V.PREMALATHA	EXPERIMENTAL INVESTIGATION AND BEHAVIOUR OF COLD-FORM ED STEEL BUILT UP CHANNEL SECTION WITH STIFFENERS
2		810715103307	SIVASANGARI.G		
3		810715103029	PRASANTH R		
4		810715103036	SACHIN S		
1	Batch 3	810715103016	JAYANTH KUMAR J	Mr.V.K.M RAJA	ASSESSMENT OF WATER QUALITY OF UYYAKONDAN CHANNEL
2		810715103701	VIJAYABHARATHI.P		
3		810715103032	RAJESH R		
4		810715103035	RAVIKUMAR		
1	Batch 4	810715103022	MANIKANDAN G	Mr.SASI KUMAR	REPAIRING OF FLEXIBLE PAVEMENT USING INTERLOCKING BITUMEN BLOCKS
2		810715103018	JOHNSON D		
3		810715103005	ASIKA D		
4		810715103034	RANJANI T		
1	Batch 5	810715103021	MANI R	Mr.SASI KUMAR	COMPARATIVE STUDY ON DURABILITY AND FEXURAL BEHAVIOUR OF FIBER REINFORCED CONCRETE
2		810715103039	VEERA HARI KRISHINAN S D		
3		810715103031	RAJASEKARAN M		
4		810715103033	RAJ KUMAR N		
1	Batch 6	810715103014	JANITHA B	Dr.P.V.PREMALATHA	REPLACEMENT OF COARSE AGGREGATE USING E WASTE(HIPS-high impact polystyrene)
2		810715103007	DORATHI HEPZIBA J		
3		810715103024	MEENA G		
4		810715103002	ALAGESAN N		


Co-Ordinator


HOD


PRINCIPAL
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CE6811 RESEARCH PROJECT

S.No	Batch	REG.NO	NAME	GUIDE	TITLE
1	Batch 7	810715103020	KAVIYA R	Mr.C.S.MURALI	STUDY OF CRACK TIP PROPAGATION IN RCA BEAM
2		810715103011	HARIHARASUDAN M		
3		810715103019	KARTHIKEYAN S		
4		810715103023	MANIKANDAN M		
1	Batch 8	810715103010	GURUMOORTHY V	Ms.B.SUDHA PRIYA	EXPERIMENTAL INVESTIGATION ON GRANITE POWDER AS PARTIAL REPLACEMENT FOR SAND
2		810715103006	CHARLES BRUNO C		
3		810715103040	VIGNESHWARAN S		
4		810715103302	BALAKUMAR.J		
1	Batch 9	810715103008	GANGA M	Mr.SIVA SANKAR	FLYASH BRICK USING ALKALI SOLUTION
2		810715103025	MENAGA G		
3		810715103304	JAFFER SHERIFF.A		
4		810715103308	UDHAYAN.R		
1	Batch 10	810715103015	JAYANTH T	Mr.M.VIGNESHWARAN	EXPERIMENTAL BEHAVIOUR AND NUMERICAL INVESTIGATION OF CFS FACE TO FACE BUILT UP SECTION WITH FRP UNDER COMPRESSION
2		810715103301	ABDUL AZEES.A		
3		810715103305	PRASANTHI		
4		810715103003	ANUSYA DEVI S		
1	Batch 11	810715103028	NIVETHA T	Mr.SHEIK IMAM	A STUDY ON PARTIAL REPLACEMENT OF COARSE AGGREGATE WITH E WASTE AND GLASS FIBRE AS REINFORCEMENT IN PAVER BLOCKS
2		810715103012	HARSHINIDEVI M		
3		810715103041	VIGNESHWARAN K		
4		810715103013	ISSAC NAVIN J		

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EP792

NUMERICAL ANALYSIS OF BACK TO BACK MECHANICALLY STABILIZED EARTH WALL

-A CASE STUDY

A PROJECT REPORT

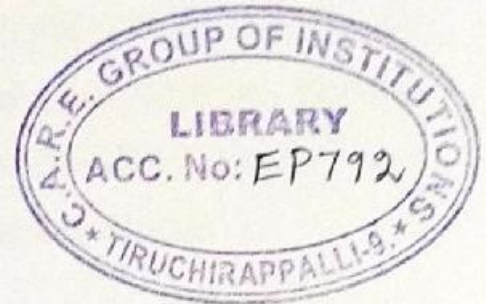
Submitted by

ABOORVARAJ .K .A

MOHAMED ZOHEB .M

GOWTHAM .G

SANKARANARAYANAN .G



in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

CIVIL ENGINEERING

C.A.R.E GROUP OF INSTITUTIONS, TIRUCHIRAPALLI



ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

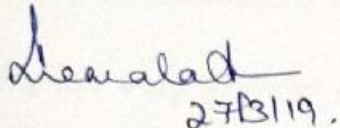
S. Praveen

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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "NUMERICAL ANALYSIS OF BACK TO BACK MECHANICALLY STABILIZED EARTH WALL-A CASE STUDY" is bonafide work of K.A.ABOORVARAJ (810715103001), M.MOHAMED ZOHEB (810715103026), G.GOWTHAM (810715103303), G.SANKARANARAYANAN (810715103306), who carried out the project work under my supervision.

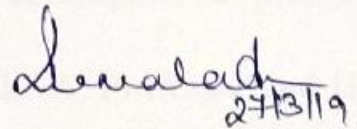

27/3/19.

SIGNATURE

Dr.P.V.Premalatha

HEAD OF THE DEPARTMENT

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27/3/19.

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Dr.P.V.Premalatha

SUPERVISOR

Professor

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Submitted for the Anna University practical viva held on 29/03/2019
MARCH -2019


29/3/19

INTERNAL EXAMINER

EXTERNAL EXAMINER

EP791

BUCKLING RESISTANCE OF AXIALY LOADED STEEL COLUMN WITH AND WITHOUT STIFFENERS

A PROJECT REPORT

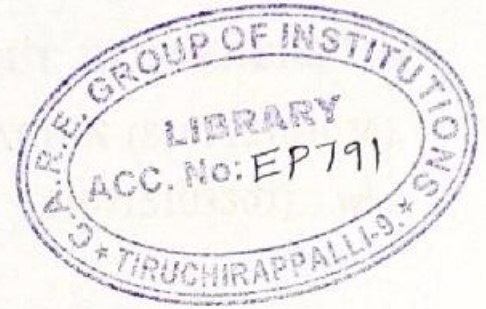
Submitted by

PRASANTH.R

SACHIN.S

SRIRAM.N

SIVASANGARI.G



in partial fulfillment for the award of the degree

of

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C.A.R.E GROUP OF INSTITUTIONS, TIRUCHIRAPALLI



ANNA UNIVERSITY :: CHENNAI – 600 025

MARCH 2019

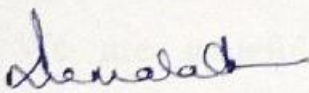
S. Shakti

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BONAFIDE CERTIFICATE

Certified that this project report “**BUCKLING RESISTANCE OF AXIALY LOADED STEEL COLUMN WITH AND WITHOUT STIFFENERS**” is bonafide work of R.PRASANTH (810715103029), S.SACHIN (810715103036), N.SRIRAM (810715103038) and G.SIVASANGARI (810715103307), who carried out the project work under my supervision.



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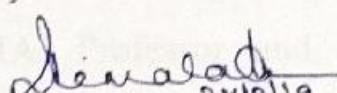
Dr. P.V. Premalatha

HEAD OF THE DEPARTMENT

Department of Civil Engineering

C.A.R.E Group of Institutions

Tiruchirappalli- 620 009



SIGNATURE

Dr. P.V. Premalatha

SUPERVISOR

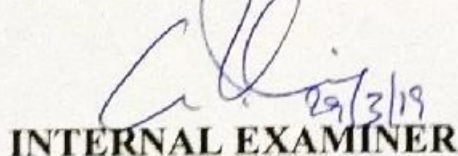
Professor

Department of Civil Engineering

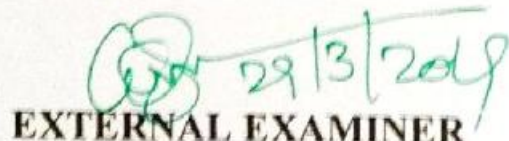
C.A.R.E Group of Institutions

Tiruchirappalli- 620 009

Submitted for the Anna University practical viva held on 29 March 2019



INTERNAL EXAMINER



EXTERNAL EXAMINER

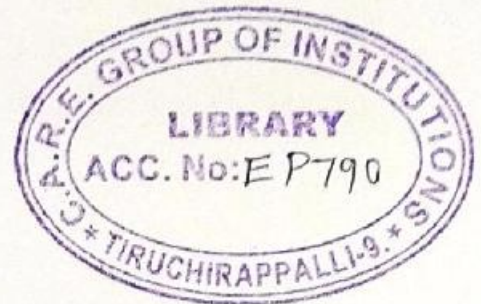
EP 790

**ASSESSMENT OF WATER QUALITY OF
UYYAKONDAN CANAL**

A PROJECT REPORT

Submitted by

**J.JAYANTH KUMAR
K.RAVI KUMAR
R.RAJESH
P.VIJAYABHAARATHI**



in partial fulfillment for the award of the degree

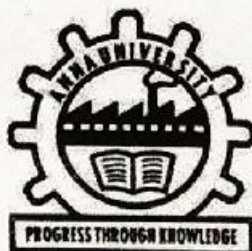
of

BACHELOR OF ENGINEERING

in

CIVIL ENGINEERING

C.A.R.E GROUP OF INSTITUTIONS, TIRUCHIRAPALLI



ANNA UNIVERSITY:: CHENNAI 600 025

MARCH 2019

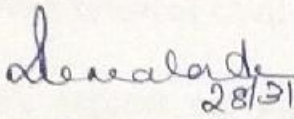
i

S. Praveen
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No. 27, Thayanur, Trichy-620 009.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "ASSESSMENT OF WATER QUALITY OF UYYAKONDAN CANAL." is bonafide work of J.JAYANTH KUMAR (810715103016), K.RAVI KUMAR (810715103035), P.VIJAYA BHAARATHI (810715103701) and R.RAJESH (810715103032), who carried out the project work under my supervision.


28/3/19

SIGNATURE

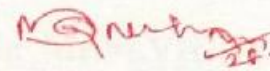
Dr.P.V.Premalatha

HEAD OF THE DEPARTMENT

Department of Civil Engineering

C.A.R.E Group of Institutions

TIRUCHIRAPPALLI 620 009


28.3.19

SIGNATURE

Mr. M.Vigneshwaran

SUPERVISOR

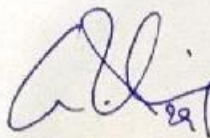
Assistant Professor

Department of Civil Engineering

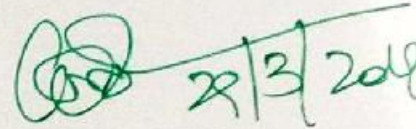
C.A.R.E Group of Institutions

TIRUCHIRAPPALLI 620 009

Submitted for the Anna university practical viva held on 29/03/2019


29/3/19

INTERNAL EXAMINER


29/3/2019

EXTERNAL EXAMINER



REPAIRING OF FLEXIBLE PAVEMENT USING INTERLOCKING BITUMEN PAVER BLOCKS

A PROJECT REPORT

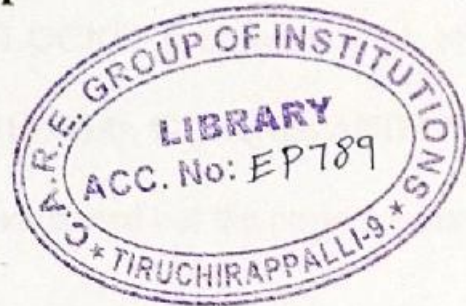
Submitted by

ASIKA.D

JOHNSON.D

MANIKANDAN.G

RANJANI.T



in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

CIVIL ENGINEERING

C.A.R.E GROUP OF INSTITUTIONS, TIRUCHIRAPALLI



ANNA UNIVERSITY:: CHENNAI 600 025

MARCH 2019

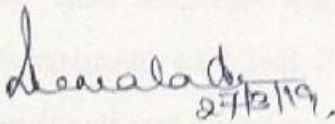
S. Praveen

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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "REPAIRING OF FLEXIBLE PAVEMENT USING INTERLOCKING BITUMEN PAVER BLOCKS" is bonafide work of D.ASIKA (810715103005), D.JOHNSON (810715103018), G.MANIKANDAN (810715103022), T.RANJANI (810715103034), who carried out the project work under my supervision.



SIGNATURE

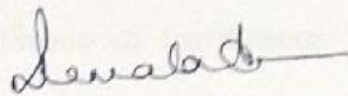
Dr. P. V. Premalatha

HEAD OF THE DEPARTMENT

Department of Civil Engineering

C.A.R.E Group of Institutions

Tiruchirappalli 620 009.



SIGNATURE

for
Mr. A. Sasi kumar

SUPERVISOR

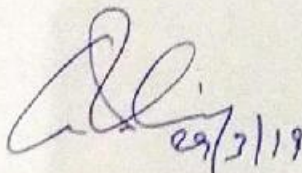
Assistant professor

Department of Civil Engineering

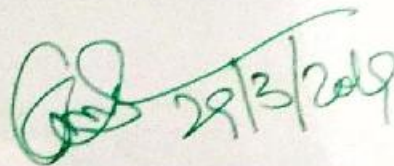
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Submitted for the Anna University practical viva held on 29.03.2019



INTERNAL EXAMINER



EXTERNAL EXAMINER

EP-788

**FLEXURAL AND DURABILITY BEHAVIOUR OF
FIBER REINFORCED CONCRETE**

A PROJECT REPORT

Submitted by

R.MANI

M.RAJASEKARAN

N.RAJKUMAR

S.D.VEERA HARI KRISHNAN



in partial fulfillment for the award of the degree

of

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in

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C.A.R.E GROUP OF INSTITUTIONS, TIRUCHIRAPALLI



ANNA UNIVERSITY:: CHENNAI 600 025

MARCH 2019

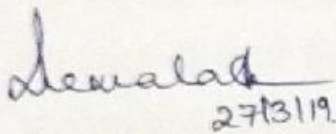
i

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Certified that the project report "FLEXURAL AND DURABILITY BEHAVIOUR OF FIBER REINFORCED CONCRETE." is bonafide work of R.MANI (810715103021), M.RAJASEKARAN (810715103031), N.RAJKUMAR (810715103033) and S.D.VEERA HARI KRISHNAN (810715103039), who carried out the project work under my supervision.

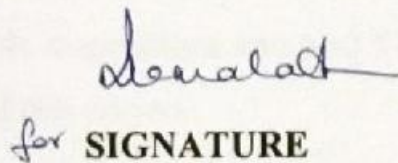

27/3/19

SIGNATURE

Dr.P.V.Premalatha

HEAD OF THE DEPARTMENT

Department of Civil Engineering,
C.A.R.E Group of Institutions,
TIRUCHIRAPPALLI 620 009


for SIGNATURE

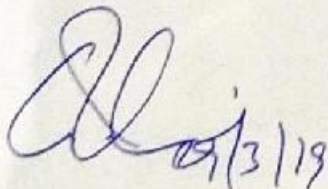
Mr. A.Sasikumar

SUPERVISOR

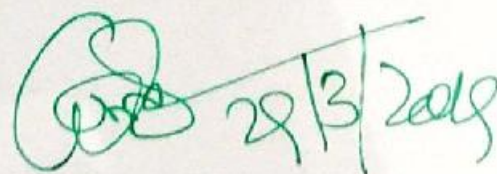
Assistant Professor

Department of Civil Engineering,
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TIRUCHIRAPPALLI 620 009

Submitted for the Anna university practical viva voice held on 29/03/2019


29/3/19

INTERNAL EXAMINER


29/3/2019

EXTERNAL EXAMINER

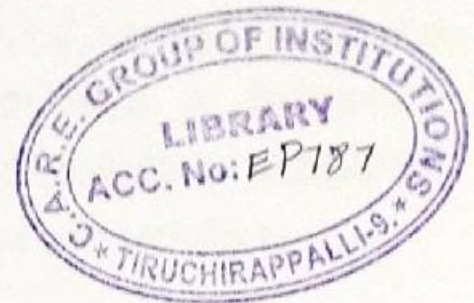
EP787

**PARTIAL REPLACEMENT OF COARSE AGGREGATE
USING E-WASTE (HIGH IMPACT POLYSTYRENE)**

A PROJECT REPORT

Submitted by

**ALAGESAN.N
DORATHY HEPZIBA.J
JANITHA.B
MEENA.G**



in partial fulfillment for the award of the degree

of

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ANNA UNIVERSITY::CHENNAI - 600 025

MARCH 2019

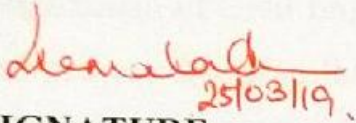
S. Shanth

**PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.**

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

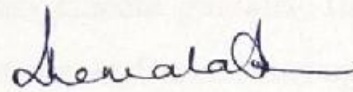
Certified that this project report “REPLACEMENT OF COARSE AGGREGATE BY USING E-WASTE (HIGH IMPACT POLYSTYRENE)” is the bonafide work of “N.ALAGESAN (810715103002), J. DORATHY HEPZIBA (810715103007), B. JANITHA (810715103014), G.MEENA (810715103024),” who carried out the project work under my supervision.


25/03/19

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Dr. P.V. PREMALATHA
HEAD OF THE DEPARTMENT

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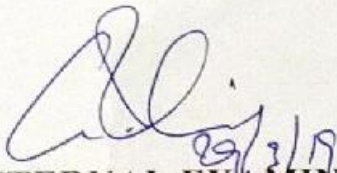


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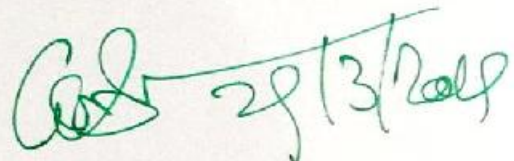
Dr. P.V. PREMALATHA
SUPERVISOR
PROFESSOR

Department of Civil Engineering,
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Tiruchirappalli- 620 009

Submitted for the Anna University practical viva held on 29/03/2019


29/3/19

INTERNAL EXAMINER


29/3/2019

EXTERNAL EXAMINER

E786

**STUDY OF CRACK PROPAGATION IN COMPARISON
WITH NATURAL AGGREGATE AND RECYCLED
AGGREGATE**

A PROJECT REPORT

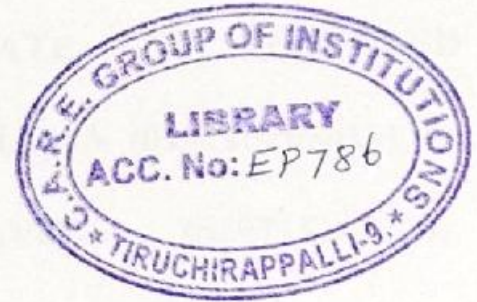
Submitted by

M. HARIHARASUDAN

S. KARTHIKEYAN

R. KAVIYA

M. MANIKANDAN



in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

CIVIL ENGINEERING

C.A.R.E GROUP OF INSTITUTIONS, TIRUCHIRAPALLI.



ANNA UNIVERSITY::CHENNAI - 600 025

MARCH 2019

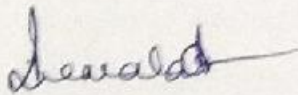
i

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No. 27, Thayanur, Trichy-620 009.**

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "STUDY OF CRACK PROPAGATION IN COMPARISON WITH NATURAL AGGREGATE AND RECYCLED AGGREGATE" is the work of "M. HARIHARASUDAN (810715103011), S. KARTHIKEYAN (810715103019), R .KAVIYA (810715103020), M. MANIKANDAN (810715103023)" who carried out the project work under my supervision.

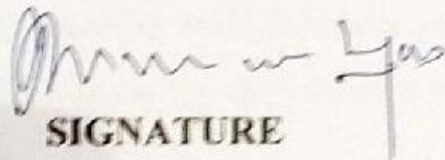


SIGNATURE

DR.P.V.Premalatha

HEAD OF THE DEPARTMENT

Department of Civil Engineering,
C.A.R.E Group of Institutions,
Tiruchirappalli - 620 009.



SIGNATURE

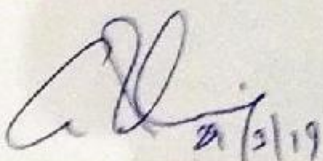
Mr.C.S.Murali

SUPERVISOR

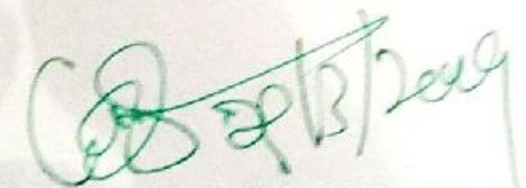
Assistant professor

Department of Civil Engineering,
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Tiruchirappalli - 620 009.

Submitted for the Anna University practical viva voce held on 29/03/2019.



INTERNAL EXAMINER



EXTERNAL EXAMINER

EP785

**EXPERIMENTAL INVESTIGATION ON THE PARTIAL
REPLACEMENT OF FINE AGGREGATE BY GRANITE
POWDER IN CONCRETE**

A PROJECT REPORT

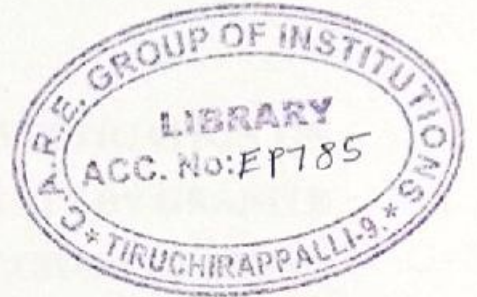
Submitted by

C. CHARLES BRUNO

V.GURUMOORTHY

S. VIGNESHWARAN

J. BALAKUMAR



in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

CIVIL ENGINEERING

C.A.R.E GROUP OF INSTITUTIONS, TIRUCHIRAPALLI



ANNA UNIVERSITY:: CHENNAI 6000 025

MARCH 2019

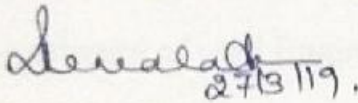
S. Shanth

**PRINCIPAL
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No. 27, Thayanur, Trichy-620 009.**

ANNA UNIVERSITY: CHENNAI 6000 025

BONAFIDE CERTIFICATE

Certified that this project report "EXPERIMENTAL INVESTIGATION ON THE PARTIAL REPLACEMENT OF FINE AGGREGATE BY GRANITE POWDER IN CONCRETE" is the bonafide work of "C.CHARLES BRUNO (810715103006), V.GURUMOORTHY (810715103010), S.VIGNESHWARAN (810715103040) and J.BALA KUMAR (810715103302)", who carried out the project work under my supervision.



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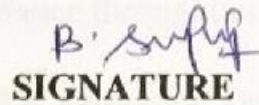
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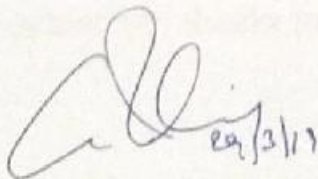
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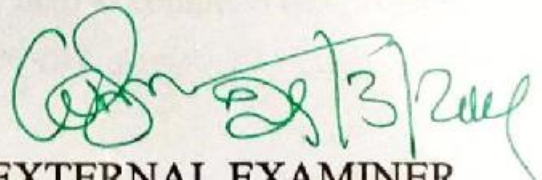
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TIRUCHIRAPPALLI 620 009

Submitted for the Anna university practical viva voice held on 29-03-2019/AN



INTERNAL EXAMINER



EXTERNAL EXAMINER

EP784

ECOLOGICAL BRICK USING FLYASH AND ALKALI SOLUTION

A PROJECT REPORT

Submitted by

GANGA. M
VIGNESH WARAN. K
JAFFER SHERIFF. A
UDHAYAN. R



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ANNA UNIVERSITY : CHENNAI 600 025

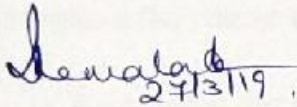
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Certified that this project report "ECOLOGICAL BRICK USING FLYASH AND ALKALI SOLUTION" is the bonafide work of M.GANGA (810715103008), K.VIGNESH WARAN (810715103041), A. JAFFER SHERIFF (810715103304), R.UDHAYAN (810715103308), who carried out the project work under my supervision.

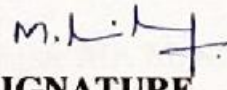


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Submitted for the Anna University practical viva held on 29/03/2019.



INTERNAL EXAMINER



EXTERNAL EXAMINER

**ANALYSIS OF COLD FORMED STEEL BUILT UP CLOSED
SECTIONS STRENGTHENED WITH GFRP**

A PROJECT REPORT

Submitted by

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A.ABDUL AZEES

I.PRASHANTH



in partial fulfilment for the award of the degree

of

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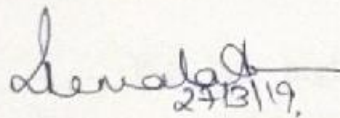
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Certified that this Project report on “ANALYSIS OF COLD-FORMED STEEL BUILT-UP CLOSED SECTIONS STRENGTHENED WITH FRP” is the work of “S.ANUSUYA DEVI (810715103003), T.JAYANTH (810715103015), A.ABDUL AZEES (810715103301), L.PRASHANTH (810715103305),” who carried out the project work under my supervision



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Mr. M.Vigneshwaran

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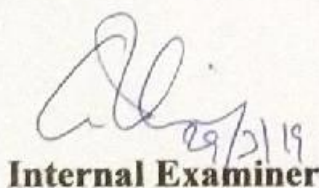
Assistant Professor

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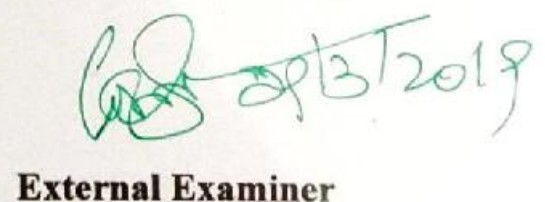
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Internal Examiner

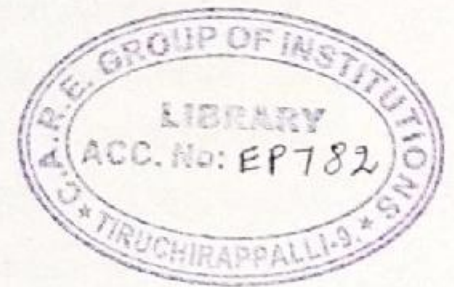


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**PARTIAL REPLACEMENT OF COARSE
AGGREGATE WITH E-WASTE AND GLASS
FIBRE IN PAVER BLOCKS**

A PROJECT REPORT

Submitted by
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J.ISSACK NAVIN
G. MENAGA
T.NIVETHA**



in partial fulfilment for the award of the degree

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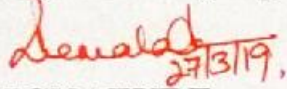
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Certified that this Project report on “PARTIAL REPLACEMENT OF COARSE AGGREGATE WITH E-WASTE AND GLASS FIBRE AS REINFORCEMENT IN PAVER BLOCKS” is the work of “M.HARSHNI DEVI (810715103012), J.ISSACK NAVIN (810715103013), G.MENAGA (810715103025), T.NIVETHA (810715103028),” who carried out the project work under my supervision


27/3/19

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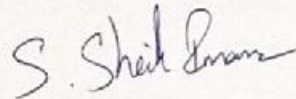
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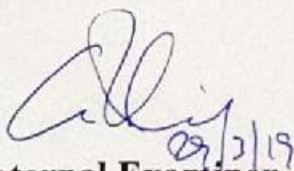
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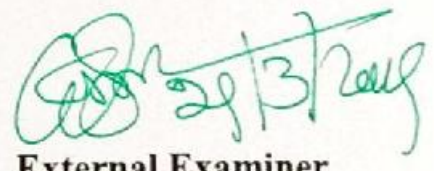
C.A.R.E Group of Institutions

Tiruchirappalli-620 009

Submitted for the Anna University project viva voice held on 29.03.19


29/3/19

Internal Examiner


29/3/19

External Examiner

ii



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No. 27, Thayanur, Trichy-620 009.

CARE

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(Approved by AICTE and Affiliated to Anna University, Chennai)

2, Thayanur, Trichy - 620009


DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Project Batch List 2018-2019

Batch No	Reg No	Name of the Student	Project Title	Guide name
1	810715104002	Alagesan.K	Pest Identification using Probabilistic Neural Networks	Ms.S.Madhumathi Assistant Professor-CSE
	810715104016	Sayanthan.S		
	810715104301	Deepika.K		
2	810715104004	Darwinsha.B	Land value Analysis using Regression & Neural Network models	Mr. V. Vijeynathan Assistant Professor-CSE
	810715104011	Prasanth.B		
3	810715104014	Raga Vignesh.T	Application for Vehicle insurance & Online fine payment	Mr.M.Vadivel Assistant Professor-CSE
	810715104015	Ramisuden.R		
	810715104701	Aashika Sumaira.A		
4	810715104009	Kavya.R.M	Pediatric Tele dermatology using Android application	Mr.M.Vadivel Assistant Professor-CSE
	810715104013	Priyanka.S		
5	810715104006	Harini.R	Replica Passwords for password cracking detection	Ms.R.K.Ananthi Assistant Professor-CSE
6	810715104005	Gayathri.R	Application to meet a person in group & remainder message	Mr.M.Vadivel Assistant Professor-CSE
7	810715104008	Jeeslin Jenifer.R	Authentication and Access management schema for cloud based system using JWT	Mrs.G.Usha devi Assistant Professor-CSE
	810715104012	Prithini.V		
8	810715104001	Akshaya.S	Cardiac Arrest prediction using Data mining	Ms.P.Abinaya Assistant Professor-CSE
	810715104010	Pavithra.S		



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HEAD

Dept. of Computer Science and Engg.
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**LAND VALUE ANALYSIS USING REGRESSION
AND NEURAL NETWORK MODELS**

A PROJECT REPORT

Submitted by

DARWINSHA B

[810715104004]

PRASATH B

[810715104011]

In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

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ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019


**PRINCIPAL
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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "LAND VALUE ANALYSIS USING REGRESSION AND NEURAL NETWORK MODELS" is the bonafide work of DARWINSHA.B (810715104004), PRASATH.B (810715104011) who carried out the project work under my supervision.



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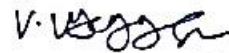
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Mr. V. Vijey nathan,

Assistant Professor ,

SUPERVISOR

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Submitted for the ANNA UNIVERSITY project viva-voce held on 29/3/19
at CARE Group of Institutions, Trichy-620 009



INTERNAL EXAMINER



EXTERNAL EXAMINER



PRINCIPAL

CARE COLLEGE OF ENGINEERING

No. 27, Thayanur, Trichy-620 009.

ABSTRACT

Over the last two decades there have been a lot of research studies analyzing land prices. Each study includes attributes of land price such as geographic allocation, the environment, size of plot, land use pattern, soil productivity, topography, drainage, population growth, economic development, infrastructure, agriculture, nearby developments, etc. Statistical models have been commonly used to estimate land prices. We developed a web application that focuses on forecasting the land prices using two algorithms. The two algorithms used here are regression and neural networks. To train the model with current market price. The model will then predict the value of the lands as per the user. The model also calculates the value of the land at present time with taking many variables as training data. In general, on-exchange traded assets such as private residential real estate are characterized by a lack of fundamentals and, thus, valuation is less a function of discounted present value than one of finding recently traded assets of comparable value. Due to limited availability of land and to utilize it optimally, the development trend slowly shifted in vertical direction rather than radial and horizontal. This compact vertical development will make positive environmental impact and leads better accessibility and efficient model.



PRINCIPAL
CARE COLLEGE OF ENGINEERING
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**PEST IDENTIFICATION USING PROBABILISTIC
NEURAL NETWORK**

A PROJECT REPORT

Submitted by

ALAGESAN K [810715104002]

SAYANTHAN S [810715104016]

DEPTHIKA K [810715104301]

in partial fulfillment for the award of the degree

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ANNA UNIVERSITY : CHENNAI 600 025

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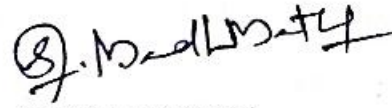
Certified that this project report “PEST IDENTIFICATION USING PROBABILISTIC NEURAL NETWORK” is the bonafide work of “ALAGESAN.K (810715104002), SAYANTHAN.S (810715104016), DEPTHIKA.K (810715104301)” who carried out the project work under my supervision.



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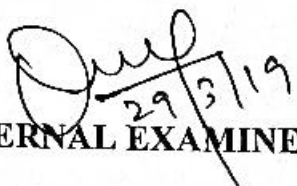


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INTERNAL EXAMINER



EXTERNAL EXAMINER



**PRINCIPAL
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No. 27, Thayanur, Trichy-620 009.**

ABSTRACT

Classification of insect species in greenhouse is very important to avoid economic losses. Crop protection and monitoring is used to protect the products during pre-harvest and enhancing productivity. Human intervention for crop protection and monitoring is a critical task and time consuming which are prone to errors. Integrated Pest Management lies as the core process to reduce the use of deleterious chemicals in greenhouse agriculture. Accordingly, the monitoring of insect in greenhouse is done through Image processing. In proposed system, Local binary pattern and gray level co-occurrence matrices techniques are used for extracting features of the pest after preprocessing to enhance the recognition performance. The Probabilistic Neural Network(PNN) is a feed forward neural network, which is used in classification and pattern recognition. By using the PNN method probabilistic of mis-classification is minimized. This network generate accurate predicted target probability score. The main focus of the network is feature extraction and classification stage.

**APPLICATION TO MUTE A PERSON IN GROUP AND
REMAINDER MESSAGE**

A PROJECT REPORT

Submitted by

GAYATHRI R

810715104005

In partial fulfilment for the award of the degree

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CARE GROUP OF INSTITUTIONS, TRICHY-620 009

ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019



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Certified that this project report "APPLICATION TO MUTE A PERSON IN GROUP AND REMAINDER MESSAGE" is the bonafide work of GAYATHRI.R (810715104005), who carried out the project work under my supervision.



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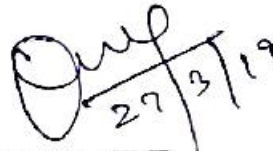
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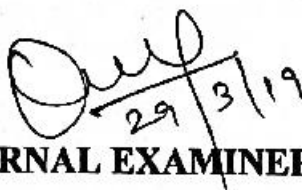
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INTERNAL EXAMINER



EXTERNAL EXAMINER



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CARE COLLEGE OF ENGINEERING
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ABSTRACT

The revolutionary advent of technology has seamlessly integrated usage of smart gadgets and chat applications in our existing workflow practices thereby making schedule of every other individual quite tiring and packed. As a result, we often fail to remember essential tasks, to-do list, important meetings and assignments. One way is to create manual reminders and getting notifications accordingly; but this needs human intervention. This work presents a more promising approach for design and development of a smart android app that will access SMS's consisting of useful information for creating reminders and notifications irrespective of any human involvement. It will be of paramount interest for users to get reminded and notified about expiry dates of availed mobile tariffs, upcoming meetings and significant activities. This app can parse messages sent by friends, family and co-workers and auto schedule reminders if arrived messages contain any useful schedulable information. In addition, this app can also process message received through application and customized mute option in group chat. This app is incredibly customizable according to user preferences and has option to decide when and if the user should get notified. End-user response was measured in terms of reviews, ratings and app downloads as discussed in results section.



PRINCIPAL
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**REPLICA PASSWORDS FOR PASSWORD CRACKING
DETECTABLE**

A PROJECT REPORT

Submitted by

Harini.R

[810715104006]

in partial fulfillment for the award of the degree

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BACHELOR OF ENGINEERING

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MARCH 2019

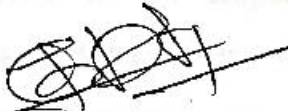


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Certified that this project report "REPLICA PASSWORD FOR PASSWORD CRACKING DETECTABLE" is the bonafide work of HARIN.R (810715104006), who carried out the project work under my supervision.



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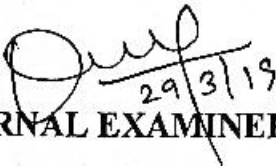
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INTERNAL EXAMINER



EXTERNAL EXAMINER



PRINCIPAL
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There is a great advancement in technology and to provide security for the user has become a basic criteria .The data of the user has to be secured in order to prevent hackers from hacking them .In the existing system Simple method for improving the security of hashed passwords: the maintenance of additional “honey words” also known as false passwords are associated with each user’s account. An adversary who steals a file of hashed passwords and inverts the hash function cannot tell if he has found the password or a honey word. The attempted use of a honey word for login sets off an alert message. This can be done because the honey cracker or a server can maintain database that differentiate the honey word and the original password .The login by the user can be done only by giving the actual password and the honey word. The major problem faced was the timing it took even for original user to login .in order to overcome this problem in our proposed system uses encryption technique .To enhance result we use SHA encryption technique and store the replica password in the data base and generates an alert message to the user if hacked .This alert is also generated even if the user he himself gives a wrong password or actually forgets the original password. Thus experimental evaluations show that our proposed techniques are efficient and perform better. Also as an added advantage the replica passwords are resistant to brute force attack.

4.2 SOFTWARE

4.3 ABOUT SOFTWARE

4.3.1 SQL SERVER

4.3.1.1 CONCURRENCY AND LOCKING

4.3.2 JAVA ECLIPSE



PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

**AUTHENTICATION AND ACCESS MANAGEMENT
SCHEMA FOR CLOUD BASED SYSTEMS USING JWT**

A PROJECT REPORT

Submitted by

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PRITHINI V

[810715104012]

in partial fulfillment for the award of the degree

of

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MARCH 2019



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Certified that this project report "AUTHENTICATION AND ACCESS MANAGEMENT SCHEMA FOR CLOUD BASED SYSTEMS USING JWT" is the bonafide work of "JESSLIN JENIFER.R (810715104008), PRITHIN.V (810715104012)" who carried out the project work under my supervision.


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INTERNAL EXAMINER


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No. 27, Thayanur, Trichy-620 009.

ABSTRACT

Cloud computing is significantly reshaping the computing industry built around core concepts such as virtualization, processing power, connectivity and elasticity to store and share IT resources via a broad network. It has emerged as the key technology that unleashes the potency of Big Data, Internet of Things, Mobile and Web Applications, and other related technologies; but it also comes with its challenges - such as governance, security, and privacy. This project focused on the security and privacy challenges of cloud computing with specific reference to user authentication and access management for cloud SaaS applications. The suggested model uses a framework that harnesses the stateless and secure nature of JWT for client authentication and session management. Now days, we are facing difficulty to maintain the confidential data in a secured manner which means, any unauthorized person can get access our private data illegally through network. In this project we have provided authentication using token-based authentication technique. It uses **JSON Web Token (JWT)** is a compact URL-safe means of representing claims to be transferred between two parties which has three parts: header, payload and signature. This project focused on the security and privacy challenges of cloud computing with specific reference to user authentication and access management for cloud environment.



PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

**PEDIATRIC TELEDERMATOLOGY USING
ANDRIOD APPLICATION**

A PROJECT REPORT

Submitted by

R.M.KAVYA

[810715104009]

S.PRIYANKA

[810715104013]

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

CARE GROUP OF INSTITUTIONS, TRICHY

ANNA UNIVERSITY : CHENNAI 600 025

MARCH 2019



**PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.**

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "PEDIATRIC
TELEDERMATOLOGY USING ANDROID APPLICATION" is the
bonafide work of "R.M.KAVYA (810715104009), S.PRIYANKA
(810715104013)", who carried out the project work under my supervision.


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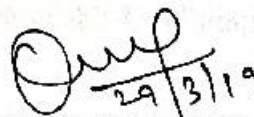
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Mr.M.VADIVEL
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Submitted for the Anna University project viva-voce held on 29.3.19
at C.A.R.E Group of Institutions, Trichy-9.


INTERNAL EXAMINER


EXTERNAL EXAMINER

ABSTRACT

Mobile phone technology has advanced also in many areas with limited resources in the last decade. Besides providing an important impact on the communication possibilities in general and social interaction, these also offer a huge potential for increased communication in these areas for medical use. Mobile telephone technology advances also provide rapid improvements in speed of data transfer. With the implementation of modern wireless telecommunication, wireless local area network and satellite communication is now surprisingly widely available, including many, if not most, areas of the globe, even those with very limited resources.

Advances in smartphone photography (both quality and image transmission) may improve access to care via direct parent-to-clinician telemedicine. However, the accuracy of diagnoses that are reliant on parent-provided photographs has not been formally compared with diagnoses made in person. Teledermatology is a technique that is increasingly being developed. There are many studies that assess this discipline in the general population, but few studies analyse the pediatric population exclusively. The aims of this project are to describe the distribution of diseases consulted through teledermatology, the use of this technique to avoid face-to-face consultations, and the agreement between virtual and face-to-face diagnoses, in the pediatric population.

Parent assisted photography are moving towards android, due to the efficiency of finding disease. We proposed an android app for parent assisted photograph skin disease detection of infants. The uploaded images of infants are verified through the training data sets and the accuracy of the result detected was found with good accuracy.

APPLICATION FOR VEHICLE INSURANCE

AND ONLINE FINE PAYMENT

A PROJECT REPORT

Submitted by

RAJA VIGNESH.T

[810715104014]

RAMISUDEEN.R

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[810715104701]

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BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

CARE GROUP OF INSTITUTIONS, TRICHY

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PRINCIPAL
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No. 27, Thayanur, Trichy-620 009.

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BONAFIDE CERTIFICATE

Certified that this project report "APPLICATION FOR VEHICLE INSURANCE AND ONLINE FINE PAYMENT" is the bonafide work of "RAJAVIGNESH.T (810715104014), RAMISUDEEN.R (810715104015), AASHIKA SUMAIRA.A(810715104701) " who carried out the project work under my supervision.



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INTERNAL EXAMINER



EXTERNAL EXAMINER



PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

ABSTRACT

The number of fatality due to accident is increasing day by day. Bribery plays a major role in our country .now a days, without bribery nothing is happening .our main goal is to avoid the bribery. There is no secured application available for claiming immediate vehicle insurance and also there is no application is there to avoid bribery. We developed an android application PII (PAYMENT AND IMMEDIATE INSURANCE) to apply the immediate vehicle insurance, to pay the fines in online mainly to avoid bribery that happening between the traffic authority and traffic offender. We also developed this for emergency need. We developed this application by categorizing into 3 phases such as immediate insurance claiming, online fine payment and emergency. The immediate vehicle insurance is claimed by the victim/user by transferring the on spot information gathered in the spot by using the default camera. Information is then transferred to the central database. Then the data will be transferred to the particular authority for the insurance process the further process will be continued if the given details are valid and true. The traffic offender will pay the road fines in online by using the onetime id generated by the traffic authority as soon as money paid the traffic offender and authority will receive the notification. The traffic offender can use the notification screen shot for the entire day. The details collected from the traffic offender will be stored in central data base for the future reference. Emergency phase is to help the people who need help from the authority like police, fire service, ambulance etc...the user should fill the details and send it to the central data base as soon as it received the details will be verified and notification will sent to the police. Particular authority will arrive the spot as soon as they receive the notification from the central server. The application "PAYMENT AND IMMEDIATE INSURANCE" (PII) is designed to help the traffic authorities.



CARE

COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)

Department of ECE

IV ECE – Project details (2015-19 Batch)

Batch	Student's name	Title of the Project	Project Guide
1	AJITH KUMAR C	MINI CNC MACHINE TO DESIGN PCB	Mr. P.RAJKUMAR
	JEEVANKUMAR R		
	HARIHARAN M		
	KALYANARAMAN R		
2	SHIVANI R	FLIPFLOP DESIGN	Mr. S.SRIRAMSUNDAR
3	VIJAYA LAKSHMI S	INTELLIGENT SYSTEM FOR AUTOMATIC RAILWAY GATE CONTROLLER AND OBSTACLE DETECTION USING Wi-Fi	Mrs.R.VANITHA
	RAMAPRIEYA V		
	VINODHINI M		
4	VERONICA SHINY X	LAND CLEANER ROBOTIC VEHICLE USING RF	Mr.P.BALAKUMAARAN
	SANDHIYA M		
	PRIYANGA V		
	KIRUBA K		
5	RAJA RAJESHWARI KM	EARTHQUAKE DETECTION USING ARDUINO	Mrs.R.DEEPALAKSHMI



PRINCIPAL
CARE COLLEGE OF ENGINEERING
 No. 27, Thayanur, Trichy-620 009.

**MINI CNC MACHINE TO DESIGN PCB INK PLOTTER
LAYOUT**

A PROJECT REPORT

Submitted by

AJITH KUMAR C (810715106001)

HARIHARAN M (810715106003)

JEEVAN KUMAR R (810715106004)

KALYANA RAMAN R (810715106005)

In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

CARE GROUP OF INSTITUTIONS, TRICHY-09

ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019


PRINCIPAL
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BONAFIDE CERTIFICATE

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Submitted for the ANNA UNIVERSITY project viva-voce held on

27/03/2019

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INTERNAL EXAMINER



EXTERNAL EXAMINER

||



PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

DESIGN AND COMPARISON OF SEQUENTIAL CIRCUIT USING LOW POWER FLIP-FLOPS

A PROJECT REPORT

Submitted by

RAJA RAJESWARI K M

810715106009

SHIVANI R

810715106012

in partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

CARE GROUP OF INSTITUTIONS, TRICHY-620 009

ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019



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BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND COMPARISION OF SEQUENTIAL CIRCUITS USING LOW POWER FLIP-FLOPS" is the bonafide work of RAJA RAJESWARI K M (Reg. No.: 810715106009) and SHIVANI R (Reg. No.: 810715106012) who carried out the project work under my supervision.


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INTERNAL EXAMINER


EXTERNAL EXAMINER

AUTOMATIC TRAFFIC LIGHT CONTROL SYSTEM USING IMAGE PROCESSING

A PROJECT REPORT

Submitted by

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VINODHINI M 810715106015

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BONAFIDE CERTIFICATE

Certified that this project report " **AUTOMATIC TRAFFIC LIGHT CONTROL SYSTEM USING IMAGE PROCESSING**" is the bonafide work of **RAMAPRIEYA.V (810715106010), VIJAYALAKSHI.S (810715106014), and VINODHINI.M (810715106015)** who carried out the project work under my supervision.



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Mr.S.Sriram Sundar, ME,(Ph.D),

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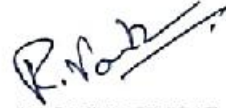
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INTERNAL EXAMINER



EXTERNAL EXAMINER

**THE SMART FLOOR CLEANER ROBOT USING
ATMEGA 328 MICROCONTROLLER**

A PROJECT REPORT

Submitted by

KIRUBA K	(810715106007)
PRIYANGA V	(810715106008)
SANTHIYA M	(810715106011)
VERONICA SHINY X	(810715106013)

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MARCH 2019



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BONAFIDE CERTIFICATE

Certified that this project report "THE SMART FLOOR CLEANER ROBOT USING ATMEGA 328 MICROCONTROLLER" is the bonafide work of KIRUBA K (Reg. No: 810715106007), PRIYANGA V (Reg. No: 8107151060008), SANTHIYA M (Reg. No: 810715106011), and VERONICA SHINY X (Reg. No: 810715106013) who carried out the project work under my supervision.



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27/03/19

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INTERNAL EXAMINER



EXTERNAL EXAMINER

||



PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

College Name: CARE Group of Institutions
Subject Name: Project Work

APRIL/MAY 2020 END SEMESTER EXAMINATIONS
MBA
Semester: IV

S.No	Reg.No	Name	Guide List	Title
1	810717631001	ABBINAYA N	R Venkatesh	A study on the impact of EPS, Dividend per share and PE ratio on share price movements
2	810717631002	AKIL STEPHEN	S. Aswarya	Financial Viability of Selected products at NSE
3	810717631003	JAMUNA LAKSHMI	S. Sunil Allan	A study on perception of SME towards digital marketing
4	810717631004	JAYASEELI Y	R Venkatesh	A study on the awareness of working women about capital market investments
5	810717631005	KALAI SELVAN T	S. Sunil Allan	A study on the awareness of health insurance among people in Trichy
6	810717631006	MANIKANDAN S	M. Durai Jaiker	A study on Health consciousness and consumer acceptance of organic food at Trichy
7	810717631007	SANTHOSHKUMAR	M. Durai Jaiker	A study on the market opportunity and dealer buying behavior on electric vehicles
8	810717631008	SINDHUJA	V. Stracey George	To study the influence of organisation commitment on employee performance with respect to foodtech employees in Trichy
9	810717631009	SUJITHRA K	V. Stracey George	To study the impact of monotony on the subsidiary behavior and work life balance
10	810717631010	VISVIN K	S. Aswarya	Style exposure Analysis of Large Cap Equity Mutual funds

S. Shanthi

PRINCIPAL
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**“A STUDY ON IMPACT OF FUNDAMENTAL AND FINANCIAL INDICATORS
ON STOCK MARKET”**

By

ABBINAYA N

REGISTER NUMBER – 810717631001

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A project report submitted to the

FACULTY OF MANAGEMENT SCIENCE

In partial fulfilment of the requirements

For the award of the degree

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MASTER OF BUSINESS ADMINISTRATION

In

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BONAFIDE CERTIFICATE

This is to certify that the project work entitled "A STUDY ON IMPACT OF FUNDAMENTAL AND FINANCIAL INDICATORS ON STOCK MARKET" is a Bonafide work carried out by Ms. ABBINAYA N (Register No: 810717631001) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



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**“A STUDY ON FACTORS DETERMINING PORTFOLIO
CREATION FOR SMALL INVESTORS WITH REFERENCE
TO NSE”**

By

AKHIL STEPHEN

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In partial fulfilment of the requirements

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This is to certify that the project work entitled "A STUDY ON FACTORS DETERMINING PORTFOLIO CREATION FOR SMALL INVESTORS WITH REFERENCE TO NSE" is a Bonafide work carried out by Mr. AKHIL STEPHEN (Register No: 810717631002) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.

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CARE 
Center for Applied Research & Education
GROUP OF INSTITUTIONS

**"A STUDY ON IMPACT OF SOCIAL MEDIA MARKETING IN THE
PERFORMANCE OF SME'S IN TRICHY"**

By

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A project report submitted to the

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Of

MASTER OF BUSINESS ADMINISTRATION

In

(Human Resource and Marketing)

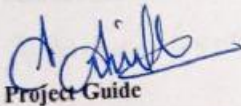
ANNA UNIVERSITY, CHENNAI-620005

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PRINCIPAL
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BONAFIDE CERTIFICATE

This is to certify that the project work entitled "A STUDY ON IMPACT OF SOCIAL MEDIA MARKETING IN THE PERFORMANCE OF SME'S IN TRICHY" is a bonafide work carried out by Ms.JAMUNA LAKSHMIS (Register No: 810717631003) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



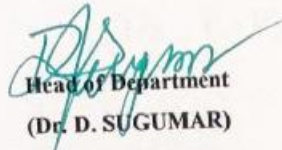
Project Guide

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“A STUDY ON THE AWARENESS OF WORKING WOMEN ABOUT CAPITAL MARKET”

By

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This is to certify that the project work entitled "A STUDY ON THE AWARENESS OF WORKING WOMEN ABOUT CAPITAL MARKET" is a bonafide work carried out by Ms. JAYASEELI. Y (Register No: 810717631004) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



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"A STUDY ON CUSTOMER AWARENESS TOWARDS HEALTH INSURANCE IN TRICHY"

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In partial fulfilment of the requirements

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In

(Human Resource and Marketing)

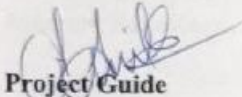
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MAY 2019


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No. 27, Thayanur, Trichy-620 009.

BONAFIDE CERTIFICATE

This is to certify that the project work entitled "A STUDY ON CUSTOMER AWAENESS TOWARDS HEALTH INDSURANCE IN TRICHY" is a bonafide work carried out by Mr. KALAI SELVAN.T (Register No: 810717631005) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



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CERTIFICATE OF VIVA-VOCE EXAMINATIONS

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**“A STUDY ON CONSUMER ACCEPTANCE OF ORGANIC FOOD AMONG
HEALTH CONSCIOUS PEOPLE AT TRICHY”**

By

MANIKANDAN.S

REGISTER NUMBER – 810717631006

Of

CARE BUSINESS SCHOOL, TRICHY

A project report submitted to the

FACULTY OF MANAGEMENT SCIENCE

In partial fulfilment of the requirements

For the award of the degree

Of


MASTER OF BUSINESS ADMINISTRATION

In

(Marketing and Human Resource)

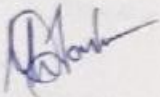
ANNA UNIVERSITY, CHENNAI-620005

MAY 2019


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This is to certify that the project work entitled "A STUDY ON CONSUMER ACCEPTANCE OF ORGANIC FOOD AMONG HEALTH CONSCIOUS PEOPLE AT TRICHY" is a bonafide work carried out by Mr. Manikandan. S (Register Number: 810717631006) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



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**“A STUDY ON GOLD LOAN OFFERED BY DIFFERENT FINANCIAL
INSTITUTIONS IN TRICHY WITH SPECIAL REFERENCE TO MUTHOOT
FINANCE”**

By

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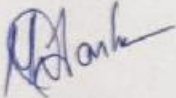
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This is to certify that the project work entitled "A STUDY ON GOLD LOAN OFFERED BY DIFFERENT FINANCIAL INSTITUTIONS IN TRICHY WITH SPECIAL REFERENCE TO MUTHOOT FINANCE" is a bonafide work carried out by Mr. Santhosh Kumar. V (Register Number: 810717631007) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



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**“TO STUDY THE INFLUENCE OF ORGANIZATIONAL COMMITMENT ON
EMPLOYEE PERFORMANCE WITH RESPECT TO FOOD TECH EMPLOYEES
IN TRICHY”**

By

SINDHUJA. M

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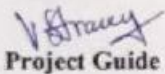
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**“TO STUDY ABOUT THE JOB SATISFACTION OF THE EMPLOYEES IN
TAMIL NADU NEWSPRINT AND PAPERS LIMITED KARUR ”.**

By

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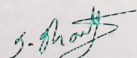
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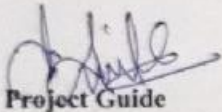
May 2019



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This is to certify that the project work entitled "TO STUDY ABOUT THE JOB SATISFACTION OF EMPLOYEES IN TAMIL NADU NEWSPRINT AND PAPERS LIMITED KARUR. " is a bonafide work carried out by Ms. SUJITHRA.K (Register No: 810717631009) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



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**"A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED
MUTUAL FUNDS IN INDIA"**

By

VISVIN.V

REGISTER NUMBER – 810717631010

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A project report submitted to the

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In partial fulfilment of the requirements

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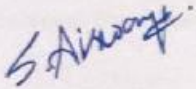
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SL NO	BATCH NUMBER	REGISTER NUMBER	NAME	TITLE OF PROJECT	INTERNAL GUIDE
1	1	810715114308	EESAK J	Surface Roughness Analysis for Inconel 718 during Grinding Operation	Mr. K.SUDHAN
2		810715114312	NAGARAJAN V		
3		810715114318	VIJAYABALAN T		
4		810715114012	GUGAN P		
5	2	810715114021	MAHESH A	Investigation of Inconel 718 During Surface Grinding Process	Mr. K.SUDHAN
6		810715114022	MANIKANDAN C		
7		810715114304	AROCKIYA NAVEEN M		
8		810715114316	SARAVANAN G		
9	3	810715114008	ASHOK KUMAR D	Performance Emission Test on Single Cylinder Diesel Engine	
10		810715114014	KALEESHWARAN N		
11		810715114015	KALIDOSS G		
12		810715114032	PRABATH C		
13	4	810715114010	DURAI PANDI P	Life Estimate of Spark Plug using Chromium and Nickel Coating	Mr. A. KARUPPASAMY
14		810715114029	PANDEESWARAN S		
15		810715114041	SIDDIQ T		
16		810715114311	MUKESH KANNAD		
17	5	810715114020	MADHAN U	Cycle Time Reduction Boiler Roof Panel Manufacturing	Mr. U.T.VINOTHRAJ
18		810715114027	NISHANTH KUMAR G		
19		810715114033	PRAVEEN KUMAR M		
20		810715114317	SHAHID AFRIDI A		

21	6	810715114013	JAYABALAJI G	Introducing non return valve in Hydro motor circuit	Mr. U.T.VINOTHRAJ
22		810715114017	KARTHICK RAJ K		
23		810715114028	OM PRAKASH K		
24		810715114030	PARANIKUMAR P		
25	7	810715114305	DHINAKARAN R	Design and Fabrication of Heat Exchange	Mr. R.GANESH
26		810715114307	DINESH KUMAR D		
27		810715114309	GOKUL K		
28		810715114314	NISHANTH K		
29	8	810715114001	AJMAL AHAMED R	Study of defects in orbital TIG Welding Process	Mr. R.GANESH
30		810715114005	ARUMUGAM K		
31		810715114006	ARUN S MATHEW		
32		810715114007	ASHISH N		
33	9	810715114004	ARAVIND KUMAR R	Utilization of Plastic Waste in Manufacturing of Plastic SAND powder Block	Mr. R.K.VITTEL RAO
34		810715114009	DEVARAJAN C		
35		810715114036	RANJITH KUMAR R		
36		810715114315	SABARISH R		
37	10	810715114011	GLADWIN LEVEIRO	Design ,Fabrication and Testing of Hydro Silencer for Two Wheeler s	Mr. R.K.VITTEL RAO
38		810715114018	KARTHICKRAJA N		
39		810715114038	SANTHOSH KANNA V		
40		810715114039	SARATH M		
41	11	810715114002	AKASH R	Orbit TIG Welding using T91 Material	Mr. D.R.RAJKUMAR
42		810715114042	SRINIVASAN G		
43		810715114301	AAKASH N		
44		810715114303	ARIVANBU A K		
45	12	810715114003	ARAVINDAN N	Design and	

S. Shanth

46		810715114023	MATHAN KUMAR R	Fabrication of Fixture fr valve Drilling	Mr. M.THANGABALAJI
47		810715114024	MOHAMMED NASEEF K C		
48		810715114035	RAMKUMAR M		
49	13	810715114019	KATHIR K	Cycle Time Reduction in Header Elbow Drilling	Mr. J.BRAWIN
50		810715114043	SURIYA PRAKASH K		
51		810715114044	TAMIZHSELVAM S		
52		810715114045	VIGNESH M		
53	14	810715114037	SAAHIL G	Design and Fabrication jig and Fixture for Crank Shaft Balancing	Mr. P.MUTHUKUMAR
54		810715114310	GOWTHAM P		
55		810715114313	NIJESH KUMAR		



PROJECT CO ORDINATOR



HOD / MECHANICAL



PRINCIPAL
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 No. 27, Thayanur, Trichy-620 009.

LIFE ESTIMATE OF SPARK PLUG USING CHROMIUM, YTTRIUM AND NICKEL COATINGS

A PROJECT REPORT

Submitted by

P. DURAI PANDI	810715114010
S. PANDEESWARAN	810715114029
T. SIDDIQ	810715114041
D. MUKESH KANNA	810715114311

in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

CARE GROUP OF INSTITUTIONS



ANNA UNIVERSITY: CHENNAI 600025

MARCH 2019



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BONAFIDE CERTIFICATE

Certified that this project report "LIFE ESTIMATE OF SPARK PLUG USING CHROMIUM, YTTRIUM AND NICKEL COATINGS" is the bonafide work of

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Submitted for Project viva-voce held on 29/03/2019 / AN.

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29/3/19

INTERNAL EXAMINER

CRILL
29/3/2019
EXTERNAL EXAMINER

S. Shanthi
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ABSTRACT

The development of a high performance, long life Spark plug has become essential in response to the demands. While improving performance (high ignitability and high required voltage), this discharge part of the spark plug needs to be reduced in size. But, in the past this been difficult because of the limitations in terms of wear it has been difficult to achieve both smaller discharge parts and longer life. To improve wear resistance, we researched materials that are both resistant to oxidation and have a high melting point.

Coating will increase the wear resistance, reduce oxidation and will increase the melting point of spark plug. The spark plug was tested with three types of coating such as Yttrium, Chromium, Nickle. To determine the Knoop hardness, corrosion test and wear test which are the measure of life of spark plug.

It was founded that the chromium coated spark plug has high performance and long life than the other two coated spark plugs. As the chromium coated spark plug has 486 VHN and corrosion resistance of 20.12g/cm³.


PRINCIPAL
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No. 27, Thayanur, Trichy-620 009.

**DESIGN AND FABRICATION OF HEAT EXCHANGER FOR WASTE
HEAT RECOVERY FROM DIESEL ENGINE EXHAUST GAS**

A PROJECT REPORT

Submitted by

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Who carried out the study report work under my super vision. Certified further, that to the best of my knowledge the work reported here does not from the part of any other project report or dissertation on the basis of which a degree awarded was conferred on an earlier occasion on this or any other candidate.


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29/3/19
INTERNAL EXAMINER


29/3/2019
EXTERNAL EXAMINER

ABSTRACT

Now a Day's ever increasing fuel cost of IC engines had become a very big concern to a human beings. The reduction in fuel consumption will be boost engine uses effective utilization of waste heat from engine exhaust will be on solution to this problem.

This project to attempt to design and fabricate a shell and tube heat exchanger to recover the waste heat from the exhaust at 136°C on full load of single cylinder 4-stroke diesel engine.

Waste heat from the exhaust gas on the diesel engine can be recovered by the shell and tube heat exchanger .The recovered heat can be used to pre-heat the intake air temperature on the diesel engine. These can be increase the performance of the engine slightly.



PRINCIPAL
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**DESIGN OF FIXTURE FOR VALVE DRILLING
OPERATION**

A PROJECT REPORT

Submitted by

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MATHAN KUMAR.R (810715114023)

MOHAMMED NASEEF.KC (810715114024)

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MOHAMMED NASEEF.KC	(810715114024)
RAM KUMAR.M	(810715114035)

Who carried out the study report work under my super vision. Certified further, that to the best of my knowledge the work reported here does not from the part of any other project report or dissertation on the basis of which a degree awarded was conferred on an earlier occasion on this or any other candidate.


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INTERNAL EXAMINER


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ABSTRACT

Increasing the productivity and accuracy are the two basic aims of mass production. Fixture is required in various industries according to their application. This can be achieved by selecting the optimal location of fixturing elements such as locators and clamps. The fixture set up for component is done, manually. For that more cycle time required for loading and unloading the material.

In this project a fixture is designed , fabricated and tested for, holding valves used in high pressure vessel in BHEL Trichy, to reduce the time of operation and to increase the accuracy.

In the old method , the time taken for drilling the three holes on regulating valves was 0.25 hours. After using the new fixture the time taken for drilling the holes is only 0.166 hours. That is 33.33% of time can be saved by making use of this fixture.



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No. 27, Thayanur, Trichy-620 009.

**ORBITAL TIG WELDING PARAMETERS ESTABLISHMENT
OF T91 MATERIAL USED IN SUPER HEATER COIL**

A PROJECT REPORT

Submitted by

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BONAFIDE CERTIFICATE

Certified that this project titled “**ORBITAL TIG WELDING PARAMETERS ESTABILISHMENT OF T91 MATERIAL USED IN SUPERHEATER COIL**” is the bonafide work of

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Who carried out the project work under my supervision.


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Submitted for the ANNA UNIVERSITY project viva-voce held on 29/3/19 F.N


INTERNAL EXAMINER


EXTERNAL EXAMINER

ABSTRACT

The term orbital tig welding is an automated process performed on tubing and pipe in a fixed position where a weld head is track mounted for all position welding. Orbital Tig welding is a specialized area of welding whereby arc is rotated mechanically through 360 degree around a static workpiece without any interruption. An object such as pipe in a continuous process. The process was developed to address the issue of operator error in gas tungsten arc welding process GTAW. Orbital tig welding is simplified loading and unloading procedures as well as reduce the time and ensured effective space and time.

This project highlights the optimization of tungsten inert gas welding parameters by design of experiments by trail and error method. This proposed methodology identifies the optimum parameters for welding and brings out the significance of the individual parameters.

This approach is easy to develop and easy to use that assures the best combination of parameters required for orbital tig welding which yield strong and defect free weld joint for superheater coil.


PRINCIPAL
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No. 27, Thayanur, Trichy-620 009.

**CYCLE TIME REDUCTION IN BOILER ROOF PANEL
MANUFACTURING PROCESS
A PROJECT REPORT**

Submitted by

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PRAVEEN KUMAR.M	810715114033
SHAHID AFRIDI.A	810715114317

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ANNA UNIVERSITY: CHENNAI 600 025

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INTERNAL EXAMINER


EXTERNAL EXAMINER


PRINCIPAL
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No. 27, Thayanur, Trichy-620 009.

ABSTRACT

In these existing method of Roof Panel manufacturing has Radiography Test, TIG Joint Welding, joint preparation, Chamfering , Gas cutting, which takes more time and also introduce defects.

To overcome these difficulties discussions were held with manufacturing and maintenance engineers, we came to a conclusion instead of using above process for tubes using **CNC HURBER MACHINE**.

By implementing this method, cycle time is reduced in **BOILER ROOF PANEL MANUFACTURING** difficulties defects are reduced.

The new method (TRAIL METHOD) is proposed to overcome the time and manpower difficulties and it includes the simple process by the bending of panel tubes.

Trail method reduces scrap wastes which is formed in the previous process and it also leads to cost more and the manual working is reduced.

The customer satisfaction is increased due to the quick time deliver of the roof panels for boilers.



PRINCIPAL
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No. 27, Thayanur, Trichy-620 009.

**UTILIZATION OF PLASTIC WASTE IN
MANUFACTURING OF PLASTIC SAND PAVER
BLOCKS**

A PROJECT REPORT

Submitted by

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INTERNAL EXAMINER


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ABSTRACT

Plastic waste is a non-biodegradable waste which cannot decompose and this creates air, water, and land pollutions while we burn the plastic waste and dumping in the ground, the percentage of plastic waste is increasing rapidly.

Recycling of the plastic is the main objective of this project. The plastics are collected from our surroundings and then it is separated based on their microns. After the separation, the plastic is needed to undergo certain heating process,

The dried plastics are heating in the container until reaches its boiling point temperature. Once it reaches the boiling point temperature the river sand is mixed and stirred to attain perfect blend and it is filled into the die. Then the filled die is kept under the atmospheric condition for 24 hours. Once it is cooled then the desired outcome is obtained, then the testing & analysis were carried out.



PRINCIPAL
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STUDY OF DEFECTS IN ORBITAL TIG WELDING

A PROJECT REPORT

Submitted by

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29/3/19
INTERNAL EXAMINER


29/3/19
EXTERNAL EXAMINER

ABSTRACT

Orbital TIG Welding is one of the widely used method in manufacturing industry and well known for welding components which cannot be manually welded. Our project is to study the defects which are usually seen during the O-TIG welding process. The defects are analysed for a period of six days and various causes for defects are studied. Orbital TIG welding machine is fixed on guide ring. The guide ring is mounted the pipe which in turn helps the O-TIG machine to rotate on the pipe and weld. The O-TIG tracks the pipe seam using LVS.



PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

**DESIGN, FABRICATION AND TESTING OF HYDRO
SILENCER FOR TWO WHEELERS**

A PROJECT REPORT

Submitted by

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N. KARTHICK RAJA (810715114018)

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M. SARATH (810715114039)

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INTERNAL EXAMINER


EXTERNAL EXAMINER


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1. ABSTRACT

The exhaust gas coming out of the existing silencer of two wheelers contains toxic gases (CO, HC, SO₂), which creates health hazards. Any amount of reduction present in the exhaust of two wheelers will be a boom to the human community

The aim of the project is to design and fabricate a Hydro silencer, which can be fixed in a two wheeler to control toxic gases coming out of the petrol engine.

The silencer was fitted in Hero Honda Splendor bike (110cc) and tested. It is found that the Hydro silencer reduces the CO (25%), CO₂ (20%), HC (6.7%).



PRINCIPAL
CARE COLLEGE OF ENGINEERING
No. 27, Thayanur, Trichy-620 009.

**CYCLE TIME REDUCTION IN HEADER ELBOW
DRILLING**

A PROJECT REPORT

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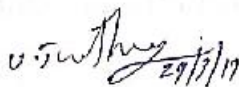

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INTERNAL EXAMINER


EXTERNAL EXAMINER

III


PRINCIPAL
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ABSTRACT

The Header Elbow is used in power plant. The Elbow has 7 drill holes. During drilling of elbow, All the 7 holes have to be located exactly and pointing towards center. we need to unclamp the job and change the setting for each and every hole.

We need to change the v block location each and every hole. we need the crane usage for each hole setting for moving the job because of manual setting, maintaining the accurate hole location and angle between holes is difficult. Swivel table is clamp in machine bed.

We can tilt (swivel table) desired degrees with the help of this scale Rotary table using this process we can reduce the cycle time to drill holes. Rotary table helps to make drilling in 360 degree and also it kept consuming time, location of job is equal and clamping effort required is less. And also it increase higher reduction and reduce the inspection time and it give very accurate finishing.



PRINCIPAL
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No. 27, Thayanur, Trichy-620 009.

**EXPERIMENTAL INVESTIGATION ON INCONEL 718 DURING
SURFACE GRINDING PROCESS BY MQL METHOD WITH
DIFFERENT COOLANTS**

By

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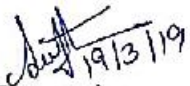
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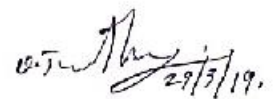
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ABSTRACT

This is the significant work on establishing the surface integrity of Inconel 718 . Recent trends in machining research show that major efforts are being made to understand the impact of various cooling/lubrication methods on machining performance and surface integrity characteristics, all aimed at improving process and product performance. This study presents the experimental results of machining (surface grinding) of Inconel 718, a high-temperature aerospace alloy, and comparison of its surface integrity in minimum quantity lubrication machining. Experimental data on cutting parameters, chip morphology, and surface roughness/topography of machined (surface grinded) samples are presented. New findings show that MQL machining is a promising research direction for machining of hightemperature aerospace alloy, Inconel 718, this study presents the experimental results of microstructure analysis, surface morphology and XRD analysis under surface grinding process using different coolants. It has been concluded with the suitable coolant which gives good surface finishing of the inconel 718.and improved surface quality. It was also found that the used coolants soap solution , E100, rapeseed oil and castor oil has performed better in this conducted investigation. The used MQL E100 shows the better performance when compared to other MQL such as soap solution, rapeseed oil and castor oil. But these are not as good as using cryogenic machining of inconel 718, though it made economically low cost in the machining process on using different MQL.



**PERFORMANCE EMISSION TEST OF SINGLE CYLINDER DIESEL
ENGINE (CRDI) USING BIODIESEL OF NEEM AND JETROPHA**

Submitted by

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A - DRAWINGS ^{CS-4}
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ABSTRACT

The scarce and rapidly depleting conventional petroleum resources have promoted research for alternative fuels for internal combustion engines. Among various possible options, fuels derived from vegetable oils/animal fats present promising "greener" substitutes for fossil fuels. Vegetable oils are able to reduce net CO₂ emissions to the atmosphere.

In this project jetropha oil and neem oil were blended with diesel to operate CRDI single cylinder, 4 stroke, 5.2KW, 1500rpm speed engine to study the performance.

It is found that jetropha oil is more promising biofuel than the neem biofuel as it gives an engine performance of mechanical efficiency 75.75%, brake thermal efficiency 25.67%, indicated thermal efficiency 32.31% at a load of 9KW with a speed 1500rpm which is higher than that of neem oil. Hence jetropha oil can be used as an alternate fuel for IC engine.



PRINCIPAL
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No. 27, Thayanur, Trichy-620 009.

**SURFACE ROUGHNRSS ANALYSIS FOR INCONEL 718
DURING GRINDING PROCESS BY VARING COOLANT
NOZZLE POSITION WITH MQL METHOD**

By

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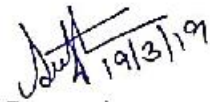
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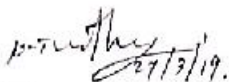

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29/3/2019

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PRINCIPAL
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ABSTRACT

Surface grinding operation have been carried out on inconel 718 to check how surface morphology and microstructure of inconel 718 reacts to an coolant when different coolant angle position is applied under surface grinding process. There has been significant work on establishing relationships between machining performance and the cutting parameters for various work materials. Recent trends in machining research show that major efforts are being made to understand the impact of various nozzle angle on machining performance and surface integrity characteristics ,all aimed at improving process and product performance. This study presents the experimental results of surface machining of Inconel 718, a high-temperature aerospace alloy, and comparison of its performance in dry and minimum quantity lubrication machining. Experimental data on force components, progressive tool wear parameters such as flank wear, notch wear, crater wear, cutting temperature, chip morphology, and surface roughness/topography of machined samples are presented. New findings show that cryogenic machining is a promising research direction for machining of high temperature aerospace alloy, Inconel 718, as it offers improved machining performance in terms of reduced tool wear, temperature, and improved surface quality. It was also found that the number of nozzles in cryogenic machining plays avital role in controlling cutting forces and power consumptionin surface grinding machining of Inconel 718.



PRINCIPAL
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INTRODUCING NON-RETURN VALVE IN HYDRO MOTOR CIRCUIT OF ROTARY HEARTH FURNACE

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29/3/19
INTERNAL EXAMINER


29/3/2019
EXTERNAL EXAMINER


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ABSTRACT

In existing method the inability to stop index at correct position. Study revealed the change of angle causes improper positioning, after study with production and maintenance engineers we came to a conclusion that introducing a non return valve in the hydro motor circuit overcomes the above difficulty.

Suitable changes were made in the hydro motor circuit and trials were done to get precise and proper positioning of the rotary hearth indexing as a result of introducing brake/non-return valve.

After implementing the non return valve in the hydro motor circuit proper indexing were made in the Rotary Hearth Furnace and the suitable modification were made in the hydraulic circuit.


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Conducted at : KVK Farm, Trichy

Duration: 28.05.2018 to 08.06.2018

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Exam Date: 17.10.2018

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8	810716103010	KALAIVANAN B
9	810716103011	KEERTHIVASAN S
10	810716103013	LAKSHMI NARAYANAN B
11	810716103015	MARY JAYAMANI K
12	810716103016	MOHAMED BHASITH M
13	810716103017	MUJIBUR RAHMAN S
14	810716103018	MURALIKRSHNAN V S
15	810716103021	RAMU G
16	810716103023	SANTHOSH S
17	810716103024	THANARAMAN S
18	810716103025	THIRUMARAN S
19	810716103026	VIGNESHWARAN R
20	810716103028	VINOBASH V
21	810716103301	ARSHATH K
22	810716103302	BHARATH DAVID RISHOP G
23	810716103303	FAISALRAHMAN K
24	810716103304	SWAMINATHAN T M
25	810716103305	SYED ABUTHAHIR M
26	810716103306	SYED MUHASSIN J

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S. Manoj
HOD
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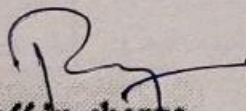
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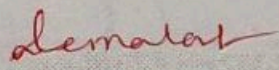
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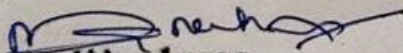
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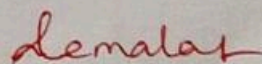
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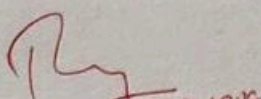
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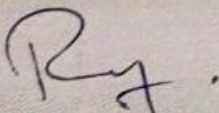

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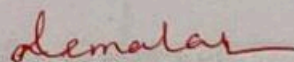
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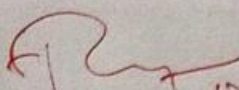
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