

ME1821 : Project Work									
Project Details									
Branch/Class : Mech/IV Year				Name of the Coordinator : Mr.R.Sakthivel Murugan					
Sl. N o.	Roll Number	Reg number	Name of the Student	Title	Guide name	Batch No.	Inhouse / Industry	PO	PSO
1	920420UME004	920420UME004	M.RAJA SRINIVAS	CHARACTERIZATION OF SMILAX CHINA ROOT NATURAL POWDER REINFORCED BIO-FILM COMPOSITE	Mr.D.Palani Kumar	1	Inhouse	1,2,3,4,7,9,10,12	1,2
2	920420UME009	920420UME009	G. ALPHONSE SAM ANTO						
3	920420UME015	920420UME015	ANANTHA KANNAN.K						
4	920420UME028	920420UME028	N.HARIHARAN	EXPERIMENTAL INVESTIGATION ON MECHANICAL PROPERTIES OF POSTWELDED HEAT-TREATED INCONEL718/316L DISSIMILAR WELDMENTS	Mr.B.K.Parrthipan	2	Inhouse	1,2,3,4,9,10,12	1
5	920420UME032	920420UME032	C.PRAVEEN						
6	920420UME036	920420UME036	R.KARTHIGAISELVAN						
7	920420UME002	920420UME002	RAHUL.K	SOLAR POWERED CHARGING SYSTEM FOR E-VEHICLES	Dr.S. Thangakasi Rajan	3	Inhouse	1,2,3,4,7,9,10,12	1,2
8	920420UME005	920420UME005	V.SANTHOSH						
9	920420UME021	920420UME021	M.BHARATH						
10	920420UME020	920420UME020	V.BALAMANIKANDAN	DEVELOPMENT OF AN INTELLIGENT BATTERY THERMALMANAGEMENT SYSTEM FOR ELECTRICAL VEHICLES	Dr.S. Thangakasi Rajan	4	Inhouse	1,2,3,4,7,9,10,12	1
11	920420UME027	920420UME027	KALAI SELVAN.R						
12	920420UME029	920420UME029	T.THANGARAJ						
13	920420UME006	920420UME006	D.VIJAY	EFFECT OF CORONA TREATMENT ON CHARACTERIZATION PROPERTIES OF PVA/VIGNA MUNGO FILLER REINFORCED BIO COMPOSITE FILMS	Dr.B.Balavairavan	5	Inhouse	1,2,3,4,7,9,10,12	1,2
14	920420UME014	920420UME014	NAVANEETHA KRISHAN. P						
15	920420UME033	920420UME033	SILAMPARASAN P						
16	920420UME008	920420UME008	DHANUSH KUMAR.M	ASBESTOS FREE BRAKE PAD USING NOVEL MATERIAL	Dr.M.Prithiviraj	6	Inhouse	1,2,3,4,7,9,10,12	1,2
17	920420UME043	920420UME043	HG.SABARIS						
18	920420UME049	920420UME049	ROHIT VISHNU. K						
19	920420UME001	920420UME001	K. SAKTHIVEL	INVESTIGATION OF INSULATION PROPERTIES OF A HYBRID COMPOSITE PREPARED USING SISAL/ NANO SILICA/E-GLASS FIBER FOR ROOF PANEL	Dr.M.Prithiviraj	7	Inhouse	1,2,3,4,7,9,10,12	1,2
20	920420UME003	920420UME003	LOGESH.A						
21	920420UME038	920420UME038	NAGENDRAN. J						
22	920420UME012	920420UME012	M. MANOJ KUMAR	STUDIES ON MECHANICAL PROPERTIES OF INCONEL 718 WELDMENTS USING REPAIR METHOD OF WAAM	Mr.B.K.Parrthipan	8	Inhouse	1,2,3,4,9,10,12	1
23	920420UME013	920420UME013	ARUL MURUGAN. K						
24	920420UME040	920420UME040	A. SREE PRABHU						
25	920420UME016	920420UME016	JAIDEEP KUMAR.K	DESIGN AND ANALYSIS OF ENERGY ABSORPTION INFLUENCED LATTICE STRUCTURES	Mr.N.R.Madhan	9	Inhouse	1,2,3,4,5,6,9,10,12	1,2
26	920420UME031	920420UME031	PREMKUMAR V V						
27	920420UME041	920420UME041	C SARAVANA KUMAR						
28	920420UME017	920420UME017	M.DA.SHYAM	GENERATIVE DESIGN AND ANALYSIS OF THE AUTOMOTIVE COMPONENT USING ADDITIVE MANUFACTURING	Mr.R.Sakthivel Murugan	10	Inhouse	1,2,3,4,5,9,10,12	1,2
29	920420UME022	920420UME022	SAIKISHORE.K						
30	920420UME050	920420UME050	P. AKILAN KARUPPAIAH						
31	920420UME046	920420UME046	CHANDRAKUMAR G	CUSTOMIZED 3D PRINTED PERSONAL PROTECTIVE EQUIPMENT (PPE) FOR RESPIRATORY PROTECTION TO FARMERS IN AGRICULTURAL APPLICATION	Mr.R.Sakthivel Murugan	11	Inhouse	1,2,3,4,7,9,10,12	1,2
32	920420UME047	920420UME047	AKASH A						
33	920420UME048	920420UME048	SUBRAMANIAN P						
34	920420UME007	920420UME007	HARISH.S	CHARECTERIZATION OF ALKALI TREATED CAJANUS CAJAN FIBER AND CAJANUS CAJAN/PLA BIO FLIM.	Mr.K.Muruganandhan	12	Inhouse	1,2,3,4,7,9,10,12	1,2
35	920420UME024	920420UME024	K.SIVA RAJ						
36	920420UME039	920420UME039	GOKULA KRISHNAN. E						
37	920420UME030	920420UME030	M.HARISURIYA	CHARACTERIZATION AND MECHANICAL PROPERTIES INVESTIGATION OF SKUNK VINE POWDER REINFORCED PLA FILAMENT FOR 3D PRINTING	Dr.S.Muthunatarajan	13	Inhouse	1,2,3,4,7,9,10,12	1
38	920420UME044	920420UME044	KESAVAN J						
39	920420UME045	920420UME045	C.RAJAGURU						
40	920420UME011	920420UME011	L. VIGNESH	CHARACTERIZATION AND MECHANICAL PROPERTIES INVESTIGATION OFFABDM POWDER REINFORCED ABS FILAMENT FOR 3D PRINTING	Dr.S.Muthunatarajan	14	Inhouse	1,2,3,4,7,9,10,12	1
41	920420UME034	920420UME034	SATHISHKUMAR.D						
42	920420UME037	920420UME037	K.THITUMALAI RAJ						
43	920420UME010	920420UME010	M.SHANMUGASUNDARAM	ANALYSIS OF CYMBOPOGAN COMPOSITE USING SEM IMAGES	Mr.A.Sankaranarayana Moorthy	15	Inhouse	1,2,3,4,5,9,10,12	1
44	920420UME018	920420UME018	R.MAREESWARAN						
45	920420UME025	920420UME025	SHYAM GANESH.V						
46	920420UME019	920420UME019	K.JEEVA	DEVELOPMENT OF BIO COMPOSITES FOR BIKE ENGINE GUARD	Dr.B.Balavairavan	16	Inhouse	1,2,3,4,7,9,10,12	1,2
47	920420UME023	920420UME023	U.SIVAGURU						
48	920420UME026	920420UME026	SHANMUGAPRIYAN.A.G						

CHARACTERIZATION OF SMILAX CHINA ROOT NATURAL POWDER REINFORCED BIO-FILM COMPOSITE

A PROJECT REPORT

Submitted by

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ANANTHA KANNAN.K	(920420UME015)

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APRIL-2024

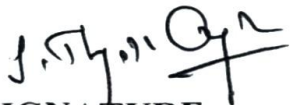
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BONAFIDE CERTIFICATE

Certified that the project report “**CHARACTERIZATION OF SMILAX CHINA ROOT NATURAL POWDER REINFORCED BIO-FILM COMPOSITE** ” is the bonafide work of “**RAJA SRINIVAS.M(20UME004),ALPHONSE SAM ANTO.G(20UME009),ANANTHA KANNAN.K(20UME015)**”who carried out the project work under my supervision



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INTERNAL EXAMINER



EXTERNAL EXAMINER

**EXPERIMENTAL INVESTIGATION ON MECHANICAL
PROPERTIES OF POSTWELD HEAT-TREATED
INCONEL718/316L DISSIMILAR WELDMENTS**

A PROJECT REPORT

Submitted by

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PRAVEEN C (920420UME032)

KARTHIGAI SELVAN R (920420UME036)

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IN

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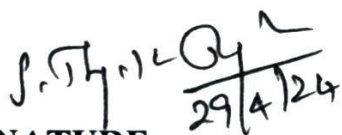
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Certified that this project report “**EXPERIMENTAL INVESTIGATION ON MECHANICAL PROPERTIES OF POST WELD HEAT – TREATED INCONEL 718 / 316L DISSIMILAR WELDMENTS**” is the bonafide work of “**HARIHARAN N (920420UME028), PRAVEEN C (920420UME032) & KARTHIGAI SELVAN R (920420UME036)** ” who carried out the project work under my supervision.


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21/5/24

INTERNAL EXAMINER


21/5/24

EXTERNAL EXAMINER

SOLAR POWERED CHARGING SYSTEM FOR E-VEHICLES

A PROJECT REPORT

Submitted by

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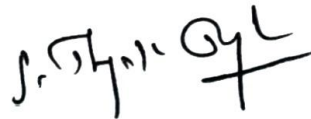
Certified that this project report “**SOLAR POWERED CHARGING SYSTEM FOR E-VEHICLES**” is the bonafide work of “**RAHUL K (920420UME002), SANTHOSH V (920420UME005) & BHARATH M (920420UME021)**” who carried out the project work under my supervision.



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INTERNAL EXAMINER



EXTERNAL EXAMINER

DEVELOPMENT OF AN INTELLIGENT BATTERY THERMAL MANAGEMENT SYSTEM FOR ELECTRICAL VEHICLES

A PROJECT REPORT

Submitted by

BALAMANIKANDAN V	(920420UME020)
THANGARAJ T	(920420UME029)
KALAI SELVAN R	(920420UME027)

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APRIL 2024

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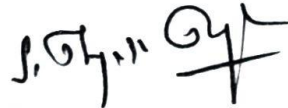
BONAFIDE CERTIFICATE

Certified that this project report **“DEVELOPMENT OF AN INTELLIGENT BATTERY THERMAL MANAGEMENT SYSTEM FOR ELECTRICAL VEHICLES”** is the bonafide work of **“BALAMANIKANDAN V (920420UME020), THANGARAJ T (920420UME029) & KALAI SELVAN R (920420UME027)”** who carried out the project work under my supervision.



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INTERNAL EXAMINER



EXTERNAL EXAMINER

**EFFECT OF CORONA TREATMENT ON CHARACTERIZATION
PROPERTIES OF PVA/VIGNA MUNGO FILLER
REINFORCED BIO COMPOSITE FILMS
A PROJECT REPORT**

Submitted by

VIJAY.D	(920420UME006)
NAVANEETHA KRISHNAN.P	(920420UME014)
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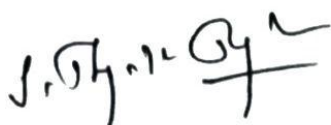
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Certified that this project report “EFFECT OF CORONA TREATMENT ON CHARACTERIZATION PROPERTIES OF PVA/VIGNA MANGO FILLER REINFORCED BIO COMPOSITE FILMS” is the bonafide work of “ VIJAY.D (920420UME006), NAVANEETHAKRISHANAN.P(920420UME014),SILAMPARASAN. P (920420UME033)” who carried out the project work under my supervision.



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INTERNAL EXAMINER



EXTERNAL EXAMINER

ASBESTOS FREE BRAKE PAD USING NOVEL MATERIAL

A PROJECT REPORT

Submitted by

DHANUSH KUMAR M (920420UME008)

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INTERNAL EXAMINER



EXTERNAL EXAMINER

**INVESTIGATION OF INSULATION PROPERTIES OF A
HYBIRD COMPOSITE PREPARED USING SISAL/
NANO SILICA/E-GLASS FIBER FOR ROOF PANEL**

A PROJECT REPORT

Submitted by

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LOGESH A (920420UME003)

NAGENDRAN J (920420UME038)

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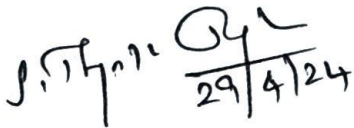
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INTERNAL EXAMINER



EXTERNAL EXAMINER

**STUDIES ON MECHANICAL PROPERTIES
OF INCONEL 718 WELDMENTS USING REPAIR
METHOD OF WAAM**

A PROJECT REPORT

Submitted by

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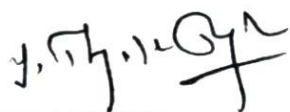
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INTERNAL EXAMINER



EXTERNAL EXAMINER

DESIGN AND ANALYSIS OF ENERGY ABSORPTION INFLUENCED LATTICE STRUCTURES

A PROJECT REPORT

Submitted by

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PREM KUMAR V V (920420UME031)

SARAVANA KUMAR C (920420UME041)

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Certified that the project report “**DESIGN AND ANALYSIS OF ENERGY ABSORPTION INFLUENCED LATTICE STRUCTURES**” is the bonafide work of “**JAIDEEP KUMAR K (920420UME016), PREM KUMAR V V (920420UME031) & SARAVANA KUMAR C (920420UME041)**” who carried out the project work under my supervision.



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INTERNAL EXAMINER



EXTERNAL EXAMINER

GENERATIVE DESIGN AND ANALYSIS OF THE AUTOMOTIVE COMPONENT USING ADDITIVE MANUFACTURING

A PROJECT REPORT

Submitted by

SHYAM M.DA (920420UME017)
SAIKISHORE.K (920420UME022)
AKILAN KARUPPAIAH.P (920420UME050)

in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



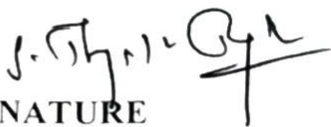
DEPARTMENT OF MECHANICAL ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution Affiliated to Anna University , Chennai)
K.VELLAKULAM, Near VIRUDHUNAGAR- 625 701

APRIL-2024

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution-Affiliated to Anna University, Chennai)
K.VELLAKULAM, VIRUDHUNAGAR-625701

BONAFIDE CERTIFICATE

Certified that the project report "GENERATIVE DESIGN AND ANALYSIS OF THE AUTOMOTIVE COMPONENT USING ADDITIVE MANUFACTURING" is the bonafide work of "SHYAM.M.DA (920420UME017), SAIKISHORE.K (920420UME022), & AKILAN KARUPPAIAH.P (920420UME050)" who carried out the project work under my supervision.



SIGNATURE

Dr.S.THANGA KASI RAJAN M.E.,Ph.D
HEAD OF THE DEPARTMENT

Associate Professor

Department of Mechanical Engineering

Kamaraj College of Engg & Tech

K.Vellakulam, Near Virudhunagar – 625701



SIGNATURE

Mr.R.SAKTHIVEL MURUGAN M.E.,
SUPERVISOR

Assistant Professor

Department of Mechanical Engineering

Kamaraj College of Engg & Tech

K.Vellakulam, Near Virudhunagar - 625701



INTERNAL EXAMINER



EXTERNAL EXAMINER

CUSTOMIZED 3D PRINTED PERSONAL PROTECTIVE EQUIPMENT (PPE) FOR RESPIRATORY PROTECTION TO FARMERS IN AGRICULTURAL APPLICATION

A PROJECT REPORT

Submitted by

CHANDRAKUMAR.G (920420UME046)

AKASH.A (920420UME047)

SUBRAMANIAN.P (920420UME048)

in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING



**DEPARTMENT OF MECHANICAL ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution Affiliated to Anna University, Chennai)
K.VELLAKULAM - 625 701 (Near Virudhunagar)**

APRIL 2024

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution Affiliated to Anna University, Chennai)
K.VELLAKULAM, VIRUDHUNAGAR - 625 701

BONAFIDE CERTIFICATE

Certified that the project report "CUSTOMIZED 3D PRINTED PERSONAL PROTECTIVE EQUIPMENT (PPE) FOR FOR RESPIRATORY PROTECTION TO FARMERS IN AGRICULTURAL APPLICATION" is the bonafide work of "G.CHANDRAKUMAR (920420UME046) , A.AKASH (920420UME047) & P.SUBRAMANIAN (920420UME048)" who carried out the project under my supervision.



SIGNATURE

Dr.S.THANGAKASI RAJAN M.E.,Ph.D.,

HEAD OF THE DEPARTMENT,

Associate Professor,

Dept of Mechanical Engineering,

Kamaraj college of Engg & Tech,

K.Vellakulam, Virudhunagar-625701



SIGNATURE

Mr.R.SAKTHIVEL MURUGAN M.E.

SUPERVISOR,

Assistant professor,

Dept of Mechanical Engineering,

Kamaraj college of Engg & Tech,

K.Vellakulam, Virudhunagar-625701



INTERNAL EXAMINER



EXTERNAL EXAMINER

CHARACTERIZATION OF ALKALI TREATED CAJANUS CAJAN FIBER AND CAJANUS CAJAN/PLA BIO FILM

A PROJECT REPORT

Submitted by

HARISH.S (920420UME007)

GOKULA KRISHNAN.E (920420UME039)

SIVARAJ.K (920420UME024)

in partial fulfilment for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**



**DEPARTMENT OF MECHANICAL ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

(An Autonomous Institution Affiliated to Anna University, Chennai)

K.VELLAKULAM, VIRUDHUNAGAR- 625701

APRIL 2024

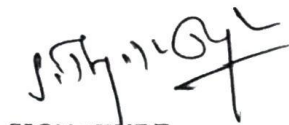
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Chennai)

K.VELLAKULAM,VIRUDHUNAGAR - 625701

BONAFIDE CERTIFICATE

Certified that this project report "CHARACTERIZATION OF ALKALI TREATED CAJANUS CAJAN FIBER AND CAJANUS CAJAN/PLA BIO FILM" is the bonafide work of "HARISH.S (920420UME007), GOKULAKRISHNAN.E (920420UME039) and SIVARAJ.K (920420UME024)" who carried out the project work under my supervision.



SIGNATURE

Dr.S.THANGA KASI RAJAN M.E.,Ph.D

HEAD OF THE DEPARTMENT

Associate Professor

Department of Mechanical Engineering

Kamaraj College of Engineering & Technology

K.Vellakulam, Near Virudhunagar - 625701



SIGNATURE

Dr.K.MURUGANANTHAN M.E.,Ph.D


SUPERVISOR

Assistant Professor

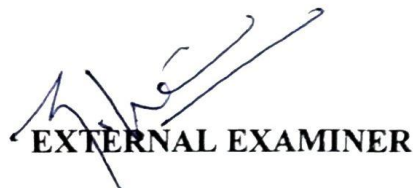
Department of Mechanical Engineering

Kamaraj College of Engineering & Technology

K.Vellakulam, Near Virudhunagar - 625701



INTERNAL EXAMINER



EXTERNAL EXAMINER

CHARACTERIZATION AND MECHANICAL PROPERTIES INVESTIGATION OF SKUNK VINE POWDER REINFORCED PLA FILAMENT FOR 3D PRINTING

A PROJECT REPORT

Submitted by

HARISURIYA.M (920420UME030)

KESAVAN.J (920420UME044)

RAJAGURU.C (920420UME045)

in partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Chennai)

K.VELLAKULAM, VIRUDHUNAGAR- 625701

APRIL 2024


KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Chennai)

K.VELLAKULAM,VIRUDHUNAGAR - 625701

BONAFIDECERTIFICATE

Certified that this project report “**CHARACTERIZATION AND MECHANICAL PROPERTIES INVESTIGATION OF SKUNK VINE POWDER REINFORCED PLA FILAMENT FOR 3D PRINTING**” is the bonafide work of “**KESAVEN.J (920420UME044), HARISURIYA.M (920420UME030) and RAJAGURU.C (920420UME045)**”who carried out the project work under my supervision.



SIGNATURE

Dr.S.THANGA KASI RAJAN M.E.,Ph.D

HEAD OF THE DEPARTMENT

Associate Professor

Department of Mechanical Engineering

Kamaraj College of Engineering & Technology

K.Vellakulam, Near Virudhunagar – 625701



SIGNATURE

Dr.S.MUTHU NATARAJAN M.E.,Ph.D

SUPERVISOR

Assistant Professor

Department of Mechanical Engineering

Kamaraj College of Engineering & Technology

K.Vellakulam, Near Virudhunagar - 625701



INTERNAL EXAMINER



EXTERNAL EXAMINER

**CHARACTERIZATION AND MECHANICAL
PROPERTIES INVESTIGATION OF ABDM POWDER
REINFORCED ABS FILAMENT FOR 3D PRINTING**

A PROJECT REPORT

Submitted by

VIGNESH.L (920420UME011)

SATHISHKUMAR.D (920420UME034)

THIRUMALAI RAJ.K (920420UME037)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

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APRIL 2024

KAMARAJCOLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Chennai)

K.VELLAKULAM,VIRUDHUNAGAR - 625 701

BONAFIDECERTIFICATE

Certified that this project report “CHARACTERIZATION AND MECHANICAL PROPERTIES INVESTIGATION OF ABDM POWDER REINFORCED ABS FILAMENT FOR 3D PRINTING” is the bonafide work of “VIGNESH.L (920420UME011), SATHISHKUMAR.D (920420UME034) and THIRUMALAI RAJ.K (920420UME037)” who carried out the project work under my supervision.



SIGNATURE

Dr.S.THANGA KASI RAJAN M.E.,Ph.D

HEAD OF THE DEPARTMENT

Associate Professor

Department of Mechanical Engineering

Kamaraj College of Engg & Tech

K.Vellakulam, Near Virudhunagar – 625701



SIGNATURE

Dr.S.MUTHU NATARAJAN M.E.,Ph.D

SUPERVISOR

Assistant Professor

Department of Mechanical Engineering

Kamaraj College of Engg & Tech

K.Vellakulam, Near Virudhunagar - 625701



INTERNAL EXAMINER



EXTERNAL EXAMINER

ANALYSIS OF CYMBOPOGAN COMPOSITE USING SEM IMAGES

A PROJECT REPORT

Submitted by

SHANMUGASUNDARAM M (920420UME010)

MAREESWARAN R (920420UME018)

SHYAM GANESH V (920420UME025)

in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**



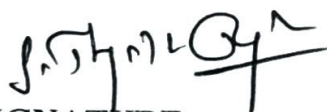
**DEPARTMENT OF MECHANICAL ENGINEERING
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
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K.VELLAKULAM, VIRUDHUNAGAR- 625 701**

APRIL -2024

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(An Autonomous Institution- Affiliated to Anna University, Chennai)
K.VELLAKULAM, VIRUDHUNAGAR – 625 701

BONAFIDE CERTIFICATE

Certified that this project report “ANALYSIS OF CYMBOPOGAN COMPOSITE USING SEM IMAGES” is the bonafide work of “SHANMUGASUNDARAM.M (920420UME010), MAREESWARAN.R(92040UME018), SHYAM GANESH. V (920420UME025)” who carried out the project work under my supervision.



SIGNATURE

Dr.S.THANGAKASIRAJAN M.E.,PhD

HEAD OF DEPARTMENT,
Associate Professor
Dept. of Mechanical Engineering
Kamaraj College of Engg & Tech,
K. Vellakulam,
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SIGNATURE

Mr.A.SANKARA NARAYANA MURTHY
M.E,(Ph.D)

SUPERVISOR,
Assistant Professor
Dept. of Mechanical Engineering
Kamaraj College of Engg & Tech
K. Vellakulam,
Virudhunagar – 625 701



INTERNAL EXAMINER



EXTERNAL EXAMINER

DEVELOPMENT OF BIO COMPOSITES FOR BIKE ENGINE GUARD

A PROJECT REPORT

Submitted by

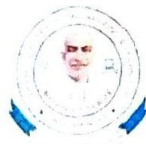
JEEVA K	(920420UME019)
SIVAGURU U	(920420UME023)
SHANMUGA PRIYAN A G	(920420UME026)

in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

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MECHANICAL ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING

KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution - Affiliated to Anna University, Chennai)

K.VELLAKULAM , VIRUDHUNAGAR – 625 701

APRIL 2024

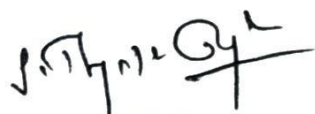
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution- Affiliated to Anna University, Chennai)

K.VELLAKULAM , VIRUDHUNAGAR – 625 701

BONAFIDE CERTIFICATE

Certified that this project report **“DEVELOPMENT OF COMPOSITES FOR BIKE ENGINE GUARD”** is the bonafide work of **“JEEVA K (920420UME019), SIVAGURU U (920420UME023), SHANMUGA PRIYAN A.G (920420UME026)”** who carried out the project work under my supervision.



SIGNATURE

Dr. S. THANGA KASI RAJAN M.E.,Ph.D

HEAD OF THE DEPARTMENT

Associate Professor

Department of Mechanical Engineering,

Kamaraj College of Engg & Technology

K. Vellakulam,

Virudhunagar – 625 701.



SIGNATURE

Dr.B.BALAVAIRAVAN M.E.,Ph.D

SUPERVISOR

Assistant Professor

Department of Mechanical Engineering

Kamaraj College of Engg & Technology

K.Vellakulam,

Virudhunagar – 625 701.



INTERNAL EXAMINER



EXTERNAL EXAMINER

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Duration	Nature of the activity	Link to the relevant document
1	Internship	ADR Plastics Pvt Ltd	SAKTHIVEL.K	08.06.2023 to 15.07.2023	Internship	
2	Internship	Action Spring	P.NAVANEETHA KRISHNAN	16.06.2023 to 08.07.2023	Internship	
3	Internship	Acoustics India Pvt Ltd	SHYAM .M.DA	05.06.2023 to 05.07.2023	Internship	
4	Internship	TNSTC	JEEVA.K	21.06.2023 to 05.07.2023	Internship	
5	Internship	SRIS.S Polymers	M.BHARATH	06.06.2023 to 07.07.2023	Internship	
6	Internship	Severn Glocon Valves Pvt Ltd	SIVAGURU U	06.07.2023 to 26.07.2023	Internship	
7	Internship	AE Engineering	THANGARAJ T	17.06.2023 to 17.07.2023	Internship	
8	Internship	AE Engineering	PRAVEEN.C	17.07.2023 to 17.07.2023	Internship	
9	Internship	ADR Plastics Pvt Ltd	SILAMPARASAN.P	08.06.2023 to 15.07.2023	Internship	
10	Internship	Action Spring	SARAVANA KUMAR.C	16.06.2023 to 08.07.2023	Internship	
11	Internship	Sri Kaliswari Metal Powder Pvt Ltd	JEGATHEESH.M	14.06.2023 to 05.07.2023	Internship	
12	Internship	Sri Kaliswari Metal Powder Pvt Ltd	GOKUL RAJ.K	14.06.2023 to 05.07.2023	Internship	
13	Internship	Sri Sapthagiri Pipes	ASRAFMOHAMED.A	16.06.2023 to 03.07.2023	Internship	
14	Internship	Sri Sapthagiri Pipes	NAGENDRA KUMAR.B	16.06.2023 to 03.07.2023	Internship	
15	Internship	Sri Kaliswari Metal Powder Pvt Ltd	KARAN.V	14.06.2023 to 05.07.2023	Internship	
16	Internship	Sri Sapthagiri Pipes	KALIRAJ.A	16.06.2023 to 03.07.2023	Internship	
17	Internship	TryCAE Industrial Engineering Pvt. Ltd.	N.M.NAVEEN	21.12.2023 to 06.01.2024	Internship	



ACTION SPRING

SPECIALIST IN SHEET METAL SPRING



Date: 10.07.2023

INTERNSHIP CERTIFICATE

TO WHOM SO IT MAY EVER CONCERN

This is to certify that C.SARAVANAN KUMAR had successfully completed his internship program with M/S.ACTION SPRING. His Internship Program Association with us, from 16-06-2023 to 08-07-2023 in our H.R Department. During the period of internship, his performance is very actively involved.

We wish him his every success and Bright Future

For Action Spring

Proprietor

GSTIN No. : 33AABCS5354H1ZH
CIN No. : U28991TN1989PTCO18534



(Off) Direct : +91 4562 234300, 234304
Sales Depot : +91 4562 220478
Fax : +91 4562 234302
E-mail : sales@sri-kaliswari.in
Website : www.sri-kaliswari.in

SRI KALISWARI METAL POWDERS PRIVATE LIMITED



Regd. Office : 5-A, Chairman A.Shunmuga Nadar Road, SIVAKASI - 626 123.

Kariseri Unit :

1, Kariseri Village Road, Melamathur Village,
MEPCO POST - 626 005.

Melamathur Unit :

1/181, 1/182,
MELAMATHUR VILLAGE - 626 005.



Ref :

Date :

July 6, 2023

To Whomsoever It May Concern:

This is to certify that Mr M.Jagatheesh , Roll No 21UME002, Second year B.E.(Mechanical) student of Kamaraj College Of Engineering & Technology, S.P.G.C. Nagar , K.Vellakulam- 625701 has successfully completed Internship at Sri Kaliswari Metal Powders Private Limited, Melamathur Village from 14.06.2023 to 05.07.2023. His conduct during the training was found satisfactory.

For Sri Kaliswari Metal Powders Private Limited,

Manager



Manufacturers & Exporters of "COCK BRAND" Aluminium Powders and Pastes

GSTIN No. : 33AABCS5354H1ZH
CIN No. : U28991TN1989PTCO18534



(Off) Direct : +91 4562 234300, 234304
Sales Depot : +91 4562 220478
Fax : +91 4562 234302
E-mail : sales@sri-kaliswari.in
Website : www.sri-kaliswari.in

SRI KALISWARI METAL POWDERS PRIVATE LIMITED



Regd. Office : 5-A, Chairman A.Shunmuga Nadar Road, SIVAKASI - 626 123.

Kariseri Unit :

1, Kariseri Village Road, Melamathur Village,
MEPCO POST - 626 005.

Melamathur Unit :

1/181, 1/182,
MELAMATHUR VILLAGE - 626 005.



Ref :

Date :

July 6, 2023

To Whomsoever It May Concern:

This is to certify that Mr K.Gokul Raj , Roll No 21UME004, Second year B.E.(Mechanical) student of Kamaraj College Of Engineering & Technology, S.P.G.C. Nagar , K.Vellakulam- 625701 has successfully completed Internship at Sri Kaliswari Metal Powders Private Limited, Melamathur Village from 14.06.2023 to 05.07.2023. His conduct during the training was found satisfactory.

For Sri Kaliswari Metal Powders Private Limited,

Manager





SRI SAPTHAGIRI PIPES

Factory : 3/724-37-A, Thendral Nagar, Padanthai (P.O.),
SATTUR - 626 203. Virudhunagar District.

Date : 03/07/23

INTERSHIP CERTIFICATE

TO WHOM IT MAY CONCERN

This is to certify that **Mr. A. ASRAF MAHAMED** has successfully completed his
Internship program of 2weeks in our company from **(16-06-2023 to 03-07-2023)**.

During the above period we found that he was consistent,
honest, and deligent in his assigned dutites and responsibilities.

We wish him all get success in his future .



SIGNATURE



SRI SAPTHAGIRI PIPES

Factory : 3/724-37-A, Thendral Nagar, Padanthai (P.O.),
SATTUR - 626 203. Virudhunagar District.

Date : 03 / 07 / 23

INTERSHIP CERTIFICATE

TO WHOM IT MAY CONCERN

This is to certify that **Mr.B. NAGENDRA KUMAR** has successfully completed his
Internship program of 2weeks in our company from **(16-06-2023 to 03-07-2023)**.

During the above period we found that he was consistent,
honest, and diligent in his assigned duties and responsibilities.

We wish him all get success in his future .



SIGNATURE

GSTIN No. : 33AABCS5354H1ZH
CIN No. : U28991TN1989PTCO18534



(Off) Direct : +91 4562 234300, 234304
Sales Depot : +91 4562 220478
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SRI KALISWARI METAL POWDERS PRIVATE LIMITED



Regd. Office : 5-A, Chairman A. Shunmuga Nadar Road, SIVAKASI - 626 123.

Kariseri Unit :

1, Kariseri Village Road, Melamathur Village,

MEPCO POST - 626 005.

Melamathur Unit :

1/181, 1/182,

MELAMATHUR VILLAGE - 626 005.



Ref :

Date :

July 6, 2023

To Whomsoever It May Concern:

This is to certify that Mr V. Karan , Roll No 21UME030, Second year B.E.(Mechanical) student of Kamaraj College Of Engineering & Technology, S.P.G.C. Nagar , K. Vellakulam- 625701 has successfully completed Internship at Sri Kaliswari Metal Powders Private Limited, Melamathur Village from 14.06.2023 to 05.07.2023. His conduct during the training was found satisfactory.

For Sri Kaliswari Metal Powders Private Limited,

Manager



Manufacturers & Exporters of "COCK BRAND" Aluminium Powders and Pastes

GSTIN : 33ACFFS7205N1ZW

Cell : 98941 96686



SRI SAPTHAGIRI PIPES

Factory : 3/724-37-A, Thendral Nagar, Padanthai (P.O.),
SATTUR - 626 203. Virudhunagar District.

Date : 03/07/23

INTERSHIP CERTIFICATE

TO WHOM IT MAY CONCERN

This is to certify that **Mr. A. KALIRAJ** has successfully completed his
Internship program of 2weeks in our company from (16-06-2023 to 03-07-2023).

During the above period we found that he was consistent,
honest, and diligent in his assigned duties and responsibilities.

We wish him all get success in his future .



SIGNATURE

06/01/2024

INTERNSHIP PROGRAMME CERTIFICATE

This is to certify that Mr. **N.M.NAVEEN**, a B.E. Mechanical Engineering student, of KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY, Virdhu Nagar, Tamil Nadu, India has successfully completed Two Weeks (From 21/12/2023 to 06/01/2024) internship programme in the area of Solid Modelling using solid works software,

He was found punctual, sincere, self-motivated and a dedicated smart student.

We wish him every success in life.

Best Regards,



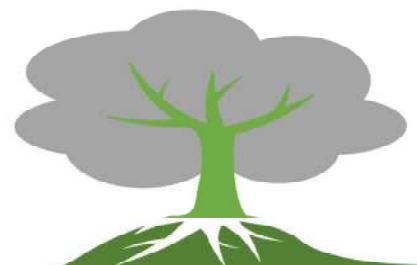


Dr.M.Vivekanandan B.E., M.E.,Ph.D.,
CEO, Try CAE Industrial Engineering Pvt.Ltd.
Certified Solid Works Expert
Solid Works Accredited Technology Educator

2017

2019

2023





ADR PLASTICS PRIVATE LIMITED

Reg. Office : Shed No. 144, SIDCO INDUSTRIAL ESTATE, KAPPALUR,
MADURAI - 625 008.

Email : adrplastics@gmail.com

CIN No. : U25209TN2020PTC134988

Land Line

0452 - 2482023

2489455

Mobile

86082 16667

86080 16667

98426 16667

DATE

DATE: 15.07.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. K.SAKTHIVEL-20UME001(B.E .Mechanical Engineering) student Kamaraj College of Engineering & Technology ,S.P.C.Nagar K.Vellakulam, Madurai,has done his Internship Training in our company from 08.06.2023 to 15.07.2023 . His commitment and involvement in all training activities are highly appreciable.

" we wish her all success in her future Endeavour"

Thanking you

For ADR PLASTICS PRIVATE LIMITED

Manager



Factories at :

Shed No. 143

Shed No. 144

Shed No.: DP No. A2(P1)

Plot No. D-32 & D-38

SIDCO INDUSTRIAL ESTATE, KAPPALUR, MADURAI - 625 008.

Scanned with CamScanner



ACTION SPRING

SPECIALIST IN SHEET METAL SPRING



Date: 10.07.2023

INTERNSHIP CERTIFICATE

TO WHOM SO IT MAY EVER CONCERN

This is to certify that P.NAVANEETHA KRISHNAN had successfully completed his internship program with M/S.ACTION SPRING. His Internship Program Association with us, from 16-06-2023 to 08-07-2023 in our H.R Department. During the period of internship, his performance is very actively involved.

We wish him his every success and Bright Future

For Action Spring

Proprietor

Our Ref: AIPL/HR/IPT/2023

July 07, 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.M.DA.SHYAM (Roll No:20UME017)** Third Year BE in Mechanical Engineering, Kamaraj College of Engineering and Technology, Vellakulam Virudhunagar District has carried out his "Internship Training" in our Organization from **05.06.2023 to 05.07.2023.**

During this time it has been observed that the candidate has shown interest in the subject and has put in extra effort to learn the various aspects pertaining to the training.

We wish him all success in all his future endeavours.

For Acoustics India Private Limited.,


(P.Periasamy)

Senior Manager - Human Resources

Acoustics India Private Limited

An *IMS* 5 Certified Company

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | ISO 27001:2013 | ISO 50001:2018

377, Rajaram Salai, K.K.Nagar, Tiruchirappalli - 620 021, TN, India
Tel: 00-91-431-4044900 (30 lines) | Fax: 0431-2456148
Email: accounts@acousticsind.com | Web: www.acousticsind.com



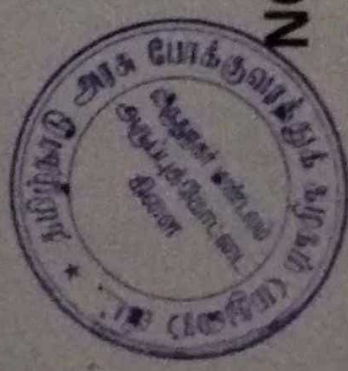
IBR **PESO**
Approved Approved

TAMIL NADU STATE TRANSPORT CORPORATION

Ref : APK/ESTT/SPT

(Madurai Ltd)

Virudhunagar Region – Aruppukottai Branch



CERTIFICATE

Date : 06.07.2023

This is certify that K.JEEVA 4th Year Mechanical Engineering in Kamaraj College of Engineering and Technology, Madurai – 625 701 has undergone practical **INPLANT TRAINING** in our branch from **21.06.2023 to 05.07.2023** During this period, his conduct and behaviors are found *Good*.....

For Tamilnadu State Corporation
(Madurai Ltd)

Virudhunagar Region

தமிழ்நாடு அரசு போக்குவரத்துத்துறை

(மதுரை) லிமிடெட், விருதுநகர் மண்டலம்

அரப்புகுட்டை கிளை

[Signature]

Branch Manager, Aruppukottai.



SRI S. S. POLYMERS

Mfrs : HDPE /PP Plastic Woven Sacks and Fabric

Off : B-10/1, Madurai Auto Mobile Co-operative Industrial Estate, KAPPALUR, MADURAI.

Date:

TRAINING ACCEPTANCE

DEAR SIR,

This is to certify that **Mr. M. BARATH (20UME021), BE Mechanical Engineering** student of **Kamaraj College Of Engineering and Technology, Virudhunagar** has done his In plant training on our Branch during the period from (06-06-2023 to 07-07-2023). He has been regular and shown keen interest in the assignment and his conduct and character were good.

We wish him all success in his future endeavors.

Thanking you


SRI S. S. POLYMERS
Off B 53, Madurai Auto Mobile
Co-Operative Industrial Estate
Kappalur Madurai

Ref : SGVPL:HR: INT: 23:24-008

Dated : 26th Jul 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Sivaguru U, Roll No: 20UME023 student of B.E Mechanical Engineering from Kamaraj College of Engineering and Technology, S.P.G.Chidambara Nadar, C.Nagammal Campus, Vellakulam, Tamil Nadu 625701 has done his Internship Training from "06th Jul 2023 to 26th Jul 2023".

During the training period he has gone through the inductions of the whole Manufacturing & Management Process, and we found his industrious and enthusiastic during the Internship period.

We wish all the best for his better future.

For Severn Glocon Valves Private Limited



Vidya Senthil Nathan
Regional Human Resource Director



A.E. ENGINEERING

71/2, Ramaiah Street Last Jaihindpuram,
Madurai - 625 011.

E.mail ID : aeengg2009@yahoo.co.in



Date : 17/07/2023

CERTIFICATE

This is to certify that Mr. T. Thangaraj, Roll No: 20 UME 029 has successfully completed 01 month of an internship program at A.E.ENGINEERING from 17/06/2023 to 17/07/2023.

During the above period, we found that he was consistent, honest, and diligent in his assigned duties and responsibilities.

We wish him great success in his future endeavours.



Place: Jaihindpuram,
Madurai - 625 011.

Authorised signatory



A.E. ENGINEERING

71/2, Ramaiah Street Last Jaihindpuram,
Madurai - 625 011.

E.mail ID : aeengg2009@yahoo.co.in



Date : 17/07/2023

CERTIFICATE

This is to certify that Mr. C.Praveen Roll No: 20 UME 032 has successfully completed 01 month of an internship program at A.E.ENGINEERING from 17/06/2023 to 17/07/2023.

During the above period, we found that he was consistent, honest, and diligent in his assigned duties and responsibilities.

We wish him great success in his future endeavours.

Place: Jaihindpuram,
Madurai - 625 011.


Authorised signatory



ADR PLASTICS PRIVATE LIMITED

Reg. Office : Shed No. 144, SIDCO INDUSTRIAL ESTATE, KAPPALUR,
MADURAI - 625 008.

Email : adrplastics@gmail.com

CIN No. : U25209TN2020PTC134988

Land Line
0452 - 2482023
2489455

Mobile
86082 16667
86080 16667
98426 16667

DATE

DATE: 15.07.2023


TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. P.SILAMPARASAN-20UME033(B.E. Mechanical Engineering) student Kamaraj College of Engineering & Technology, S.P.C.Nagar K.Vellakulam, Madurai, has done his Internship Training in our company from 08.06.2023 to 15.07.2023. His commitment and involvement in all training activities are highly appreciable.

" we wish her all success in her future Endeavour"

Thanking you

For ADR PLASTICS PRIVATE LIMITED

Manager 



Factories at :

Shed No. 143

Shed No. 144

Shed No.: DP No. A2(P1)

Plot No. D-32 & D-38

SIDCO INDUSTRIAL ESTATE, KAPPALUR, MADURAI - 625 008.