



Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

**APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES**

Date of Application:04-06-2020

Department	AUTOMOBILE ENGINEERING	Application No.	20200048
Area of Research	COMPOSITE MATERIAL	Research Mode	PART TIME

**Name** :PARTHASARATHY  
**Date of Birth / Age** :29-05-1983 / 37 Years  
**Gender** :MALE  
**Category** :BC  
**e-Mail ID** :visitcps@gmail.com  
**Mobile** :9952854576



<b>Father's/Husband's Name</b>	CHANDRAMOHAN	<b>Father's/Husband's Occupation</b>	FORMER
<b>Family Income</b>	237720	<b>Residential Type</b>	RURAL
<b>Birth Place</b>	ADUTHURAI	<b>Mother Tongue</b>	TAMIL
<b>Religion</b>	HINDU	<b>Martial Status</b>	MARRIED
<b>Aadhaar No.</b>	693906294276	<b>PAN No.</b>	AVBPP5794L
<b>Physically Challenged</b>	NO	<b>Type of Disability</b>	-
<b>Address for Communication:</b> NEW NO 1346, OLD NO 2/117 KAVIBHARATHI NAGAR, MELACAUVERY POST KUMBAKONAM THANJAVUR DISTRICT TAMILNADU INDIA Pin-612002		<b>Permenant Address:</b> NEW NO 1346, OLD NO 2/117 KAVIBHARATHI NAGAR, MELACAUVERY POST KUMBAKONAM THANJAVUR DISTRICT TAMILNADU INDIA Pin-612002	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
M.TECH	MANUFACTURING	PRIST	2015	8.64	FIRST CLASS WITH DISTINCTION	REGULAR
B.E	MECHANICAL	ANNA	2005	6.4	SECOND CLASS	REGULAR

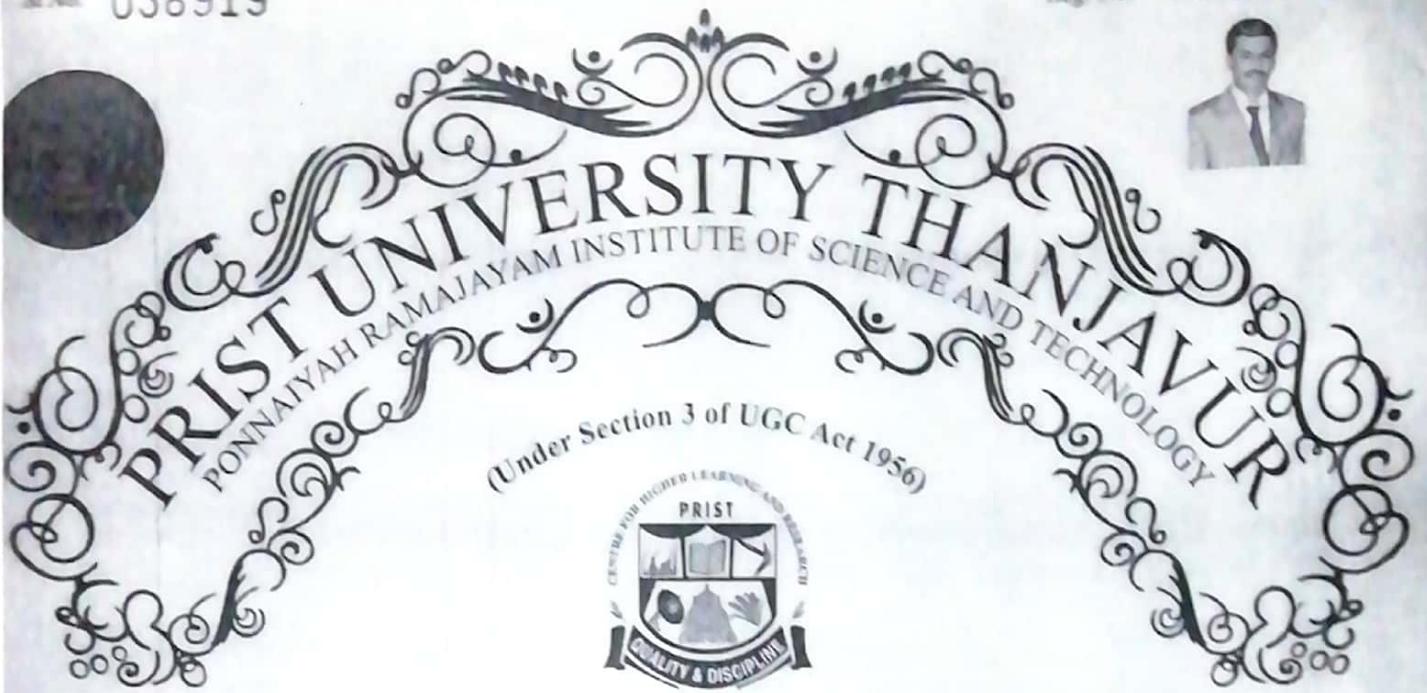
Experience					
Organization	Designation	Experience From	Experience TO	Work Nature	
ARASU ENGINEERING COLLEGE	ASSISTANT PROFESSOR	2015-06-15	2020-06-04	TEACHING	
ANNAI POLYTECHNIC COLLEGE	LECTURER	2012-06-18	2013-06-20	TEACHING	
GKN DRIVELINE	SENIOR EXECUTIVE	2010-12-08	2012-06-15	QUALITY ASSURANCE	
SUNDARAM CLYTON	GET	2008-11-03	2010-11-02	QUALITY ASSURANCE	

Payment Details
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Transaction ID	Reference	Date of transaction	Amount	Status
20200048_200624205849	SHMP8929288417	24-06-2020	600	SUCCESS

# **Exploration and analysis of nano fillers as secondary reinforcement in polymer composites**

A composite material is a material made from two or more constituent materials with significantly different physical or chemical properties that, when combined, produce a material with characteristics different from the individual components. Nanofillers are basically understood to be additives in solid form, improvements in certain mechanical or physical properties. The activity of active fillers filling of a certain volume and disruption of the conformational position of a polymer matrix, and also the immobilization of adjacent molecule groups and possible orientation of the polymer material. Epoxy resins form an important and versatile class of cross-linkable polymers made from monomers containing at least two strained-ring groups called oxiranes. These rings contain one oxygen and two carbon atoms and are attached to a large variety of other aliphatic or aromatic organic molecules. Natural fibers reinforced polymer composites have been prepared by various manufacturing technologies and are widely used for various applications such as automotive, aerospace, construction and so on. Natural fibers possess properties like high strength, flexibility, stiffness and resistance to chemical harm, however they are inferior to synthetic fibres. Each type of natural fibres have unique properties and are used for various applications in the form of polymer composites. The aim of the research is to fabricate epoxy-based hybrid nanocomposites with natural fibres such as hemp and sisal and use nano fillers such as Multiwalled Carbon Nanotubes (MWCNTs) and Graphene in varying compositions of 2 to 10 wt.%. The influence of the varying concentrations of the nanofillers on the mechanical, dynamical mechanical, tribological, thermal properties of the hybrid composites would be investigated and based on the results obtained potential applications would be suggested.



The Board of Management and the Academic Council of

this University hereby make known that

*PARTHASARATHY C*

has been admitted to the Degree of

*MASTER OF TECHNOLOGY IN MANUFACTURING TECHNOLOGY*

having completed all the Academic requirements and having been

certified by duly appointed Examiners to be qualified to receive the

same with *FIRST CLASS WITH DISTINCTION*

in the Examination conducted during *MARCH 2015*

Given under the seal of the University



Thanjavur  
Tamil Nadu India

*[Signature]*  
Registrar

*[Signature]*  
Vice-Chancellor

# Anna University Chennai



The Syndicate of the Anna University Chennai hereby makes known that  
**PARTHASARATHY C** has been admitted to the **DEGREE OF  
 BACHELOR OF ENGINEERING** in **MECHANICAL  
 ENGINEERING** under the Faculty of Mechanical Engineering, having  
 completed the prescribed programme of study and having been certified by the duly  
 appointed examiners to be qualified to receive the same, and has been placed in  
**SECOND CLASS** at the Examination held in **APRIL 2007**.

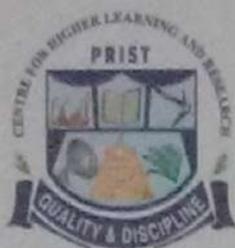
Given under the Seal of the University



*V. Ramesh*  
 Controller of Examinations

*[Signature]*  
 Registrar

*[Signature]*  
 Vice-Chancellor



# PRIST UNIVERSITY

(Established U/ S 3 of UGC Act 1956)

THANJAVUR - 613 403 - TAMILNADU, INDIA.

M.Tech., \_\_\_\_\_ DEGREE EXAMINATION

## CONSOLIDATED GRADE SHEET



Folio No. 14318

Name of the Candidate		PARTHASARATHY C		Register No.	60132510003	
Programme & Branch	M.Tech - Manufacturing Technology	Batch	2013 - 15	Month & Year of last appearance	MARCH 2015	
Semester & Subject Code	Subject Title	Credit	Grade	Grade Point	Month & Year	
1 13248S11E	ADVANCED ENGINEERING MATHEMATICS	4	C	7	DEC 2013	
1 13254E16A	MATERIALS MANAGEMENT AND LOGISTICS	4	A	9	DEC 2013	
1 13254H12	THEORY OF METAL CUTTING	4	A	9	DEC 2013	
1 13254H13	ADVANCED MANUFACTURING PROCESSES	4	A	9	DEC 2013	
1 13254H14	MECHANICAL METALLURGY	4	B	8	DEC 2013	
1 13254H15	AUTOMATED COMPUTER INTEGRATED MANUFACTURING SYSTEM	4	B	8	DEC 2013	
1 13254L17	CIM LAB	3	A	9	DEC 2013	
2 13254E24B	LEAN MANUFACTURING	4	A	9	APR 2014	
2 13254E25B	MAINTENANCE MANAGEMENT	4	B	8	APR 2014	
2 13254H21	PRODUCTION MANAGEMENT	4	B	8	APR 2014	
2 13254H22	MEMS AND NANO TECHNOLOGY	4	B	8	APR 2014	
2 13254H23	MANUFACTURING METROLOGY AND QUALITY CONTROL	4	B	8	APR 2014	
2 13254L26	AUTOMATION LAB	3	S	10	APR 2014	
2 132TECWR	TECHNICAL WRITING / SEMINARS	3	B	8	APR 2014	
3 13254E32B	INSTRUMENTATION AND CONTROL ENGINEERING	4	S	10	OCT 2014	
3 13254E33B	FLUID POWER AUTOMATION	4	A	9	OCT 2014	
3 13254E34A	ADVANCED MATERIAL TECHNOLOGY	4	S	10	OCT 2014	
3 13254H31	METAL FORMING PROCESS	4	B	8	OCT 2014	
3 13254P35	PROJECT WORK PHASE - I	6	S	10	OCT 2014	
4 13254P41	PROJECT WORK PHASE - II	12	S	10	MAR 2015	
----- End of Statement -----						
Extra Credits Earned						
CGPA	8.89	CLASS	DISTINCTION			

DATE : 01 SEP 2015

This grade sheet bears no correction

CONTROLLER OF EXAMINATIONS



# ANNA UNIVERSITY, CHENNAI

B.E. DEGREE EXAMINATIONS

## CONSOLIDATED STATEMENT OF MARKS

Form No. D103AC

NAME OF THE CANDIDATE		COLLEGE OF STUDY		REGISTER NO.		MONTH & YEAR OF LAST APPEARANCE		REGULATIONS		SUBJECT TITLE		MARKS		GRADE	
PARTHASARATHY C		801 A V C College of Engineering		80101114079		April 2007		2001		Process Planning and Cost Estimation		100	50	082	NOV 2004
B.E. Mechanical Engineering										Waste Heat Recovery and Cogeneration		100	50	073	NOV 2004
										Micro Processor Lab		100	50	093	NOV 2004
										Computation		100	50	095	NOV 2004
										Total Quality Management		100	50	079	APR 2003
										Engineering Management		100	50	078	APR 2003
										Operations Research		100	50	074	NOV 2005
										Automobile Engineering		100	50	073	APR 2005
										Project Work		200	100	172	APR 2003
<p align="center">***End of Statement***</p> <p>Classification : <b>SECOND CLASS</b></p> <p>Total Marks (from 1st to 8th semester) : 3976 - 4600</p> <p>Percentage (rounded to nearest integer) : 85</p>															
01	ME251	Rigid Mechanics and Machinery	100	50	075	NOV 2002	07	ME441	Process Planning and Cost Estimation	100	50	082	NOV 2004		
01	EE252	Electrical Machines and Drives	100	50	069	APR 2005	07	ME441	Waste Heat Recovery and Cogeneration	100	50	073	NOV 2004		
03	MA201	Mathematics - III	100	50	070	APR 2007	07	ME441	Micro Processor Lab	100	50	093	NOV 2004		
03	ME231	Applied Thermodynamics	100	50	030	NOV 2004	07	ME441	Computation	100	50	095	NOV 2004		
03	ME232	Kinematics of Machines	100	50	050	NOV 2005	08	CE406	Total Quality Management	100	50	079	APR 2003		
03	CE254	Fluid Mechanics and Machinery Lab	100	50	088	NOV 2002	08	ME441	Engineering Management	100	50	078	APR 2003		
03	ME233	Manufacturing Technology Lab	100	50	086	NOV 2002	08	ME441	Operations Research	100	50	074	NOV 2005		
03	ME234	Mechanics Drawing	100	50	079	NOV 2002	08	ME441	Automobile Engineering	100	50	073	APR 2005		
04	CE231	Strength of Materials	100	50	062	NOV 2005	08	ME441	Project Work	200	100	172	APR 2003		
04	MA018	Numerical Methods	100	50	050	APR 2004									
04	ME235	Production Technology	100	50	065	APR 2003									
04	ME236	Dynamics of Machines	100	50	030	NOV 2006									
04	ME237	Theoretical Engineering	100	50	050	APR 2004									
04	PE033	Applied Materials Science	100	50	050	NOV 2003									
04	CE252	Strength of Materials Lab	100	50	073	APR 2003									
04	ME238	Computer Graphics and Drafting	100	50	084	APR 2003									
05	ME231	Design of Machine Elements	100	50	050	NOV 2004									
05	ME232	Measurements and Controls	100	50	056	APR 2004									
05	ME234	Machine Tools	100	50	050	APR 2004									
05	ME235	Computer Aided Design	100	50	056	NOV 2003									
05	ME231	Engineering Metrology	100	50	050	APR 2004									
05	ME236	Dynamics Lab	100	50	051	NOV 2003									
05	ME237	Theoretical Engineering Laboratory - I	100	50	067	NOV 2003									
06	ME238	Computer Aided Manufacturing	100	50	089	NOV 2003									
06	ME239	Design of Jigs, Fixtures and Press Tools	100	50	051	APR 2004									
06	ME240	Heat and Mass Transfer	100	50	065	APR 2004									
06	ME241	Hydraulic and Pneumatics Controls	100	50	057	APR 2004									
06	ME242	Design of Transmission System	100	50	051	APR 2004									
06	ME244	Special Casting Processes	100	50	052	APR 2004									
06	ME243	CAM Laboratory	100	50	073	APR 2004									
06	ME244	Thermal Engineering Lab - II	100	50	082	APR 2004									
07	CE071	Principles of Environmental Science and Engineering	100	50	089	APR 2004									
07	CE033	Professional Ethics	100	50	071	NOV 2004									
07	ME403	Power Plant Engineering	100	50	064	NOV 2004									
07	ME403	Mechanics	100	50	063	NOV 2004									



*V. S. M.*



PONNAIYAH RAMAJAYAM INSTITUTE OF  
SCIENCE & TECHNOLOGY

(PRIST)

Deemed to be University U/S 3 of UGC Act, 1956  
THANJAVUR-613 403, TAMILNADU, INDIA



TRANSFER & CONDUCT CERTIFICATE

Transfer Certificate No : 18295088

Register No : 60132510003

01. Name of the Student : PARTHASARATHY.C
02. Name of the Father : CHANDRAMOHAN.T
03. Gender : MALE
04. Nationality : INDIAN
05. Religion : HINDU
06. Community : REFER THE COMMUNITY CERTIFICATE
07. Date of Birth as Entered in the  
University Records : 29/05/1983  
(TWENTY NINE-MAY-NINETEEN EIGHTY THREE)
08. Date of Admission : JULY 2013
09. Degree in which the Student was Admitted : M.TECH
10. Branch of Study : MANUFACTURING TECHNOLOGY
11. Duration of the Programme : 2 YEARS
12. Semester studied at the time of leaving  
the University : 4th SEMESTER
13. Completion of the Course : REFER THE MARK STATEMENT
14. Date of Leaving the University : MAY 2015
15. Student's Conduct and Character : GOOD
16. Date of Issue : 14 DEC 2015

Office Seal



Registrar / Director / Dean



# Arasu Engineering College

(Approved by AICTE & Affiliated to Anna University)

Chennai Main Road, Kumbakonam - 612 501.  
PH (0435) 2452444, 3299999, 6533333 FAX (0435) 2452166  
Website www.aec.org.in E-mail arasuengg@aec.org.in



**T. Senthilkumar**

Vice Chairman

AEC/Est/2015/T-070

May 29, 2015

Mr. C. Parthasarathy  
No.2/117, Kavi Bharathi Nagar  
Melacauvery Post  
Kumbakonam – 612 002

Dear Sir/Madam,

**Sub.:** Appointment order for the post of **Assistant Professor** in the **Department of Mechanical Engineering – Reg.**

With reference to your application and the subsequent interview you had with us on **29.05.2015**, we are happy to issue this appointment order to you, for the post of **Assistant Professor** in the Department of **Mechanical Engineering** of this institution, in the scale of pay of **Rs.15600-39100** plus other allowances.

You are requested to convey your acceptance immediately on receipt of the order, and join duty on or **before 15.06.2015**.

You should not engage yourself in any other employment, either on full time or part time basis, during your tenure in this institution.

The minimum tenure of service shall be 3 (three) years, of which the first two years will be your probation period and the third year will be your regularization period. In this connection, you are required to sign an affidavit to the effect that you will work in this institution for a period of minimum 3 (three) years without any break.

The normal relieving from duty will be allowed only after completing 3 (three) years of service in this institution; that too, at the end of the academic year. For that, you have to tender your resignation letter during the month of March of the year, or three-month salary in lieu thereof. Service certificate will not be issued if you happen to leave the institution before completion of the stipulated three years period.

Also you are required to submit the following original certificates/documents as may be applicable to the post at the time of joining duty.

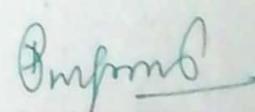
- U.G. & P.G. Degree certificates
- Transfer certificate from the last institution studied
- SSLC or HSC Mark sheet - Age proof
- Community certificate – for statistical purpose
- Experience certificate, if any

The receipt of the appointment order should be acknowledged.



Copy to:

1. The Principal
2. The HoD
3. Establishment section

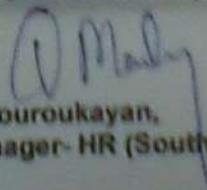
  
VICE-CHAIRMAN

15<sup>th</sup> June 2012

**SERVICE CERTIFICATE**

Name	:	C.Parthasarathy
Date of Joining	:	08.12.2010
Date of Resignation	:	20.05.2012
Date of Relieving	:	15.06.2012
Designation	:	Senior Executive - Quality
Reporting to	:	Manager
Reason for leaving	:	Resigned
Work, Conduct & Character	:	Good

For GKN Driveline (India) Ltd

  
V.Mouroukayan,  
Manager- HR (South Regional)



Head  
Chennai - 600 008 India  
Telephone - 044 2603 8212  
Fax - 044-26037177

## Sundaram-Clayton Limited

Ref : PER/70007

Dated : 03.11.2010

### SERVICE CERTIFICATE

Name of the Employee : Shri. C Parthasarathy  
Employee Number : 511716  
Designation : Graduate Engineer Trainee (Special Scheme)  
Department : Quality assurance  
Date of Joining : 03.11.2008  
Date of Leaving : 02.11.2010  
Salary Last Drawn : Basic: Rs 8000/- per month  
HRA: Rs 2500/- per month  
Reason for Leaving : Completion of Training

For SUNDARAM-CLAYTON LIMITED

P. Ramaswamy,  
VICE PRESIDENT (PERSONNEL)



# EL-SHADDAI CNC

No. AC12/1A, Sideo Industrial Estate, Thirumudiyakkam, Chennai-44

Phone: 044-29301096, Cell: 9344716244, 94420 05019.

E-mail: el\_shaddaicnc @ rediffmail.com , rajaw2008 @ gmail.com

Els/Exp/063/012/2008

31-10-2008

## To whomsoever it may concern

This is to certify that Mr.C.Parthasarathy S/o Mr.T.Chandramohan worked as Executive in our Quality department. He was employed between 01.07.2005 to 31.10.2008. He resigned due to his personal reasons. During his tenure he demonstrated good conduct & character. We wish him all the best for his future prospects



For EL-SHADDAI CNC

  
Chief Executive

(W. RAJAN)

आयकर विभाग

INCOME TAX DEPARTMENT



भारत सरकार

GOVT. OF INDIA

PARTHASARATHY

CHANDRAMOHAN

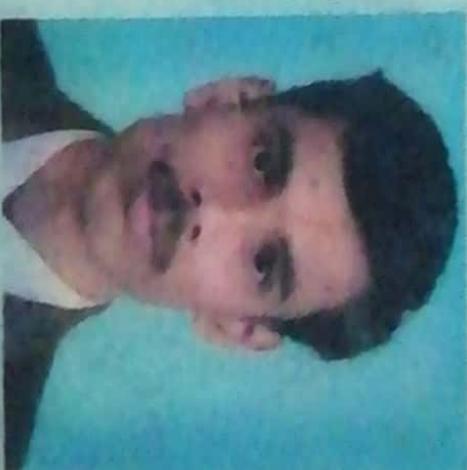
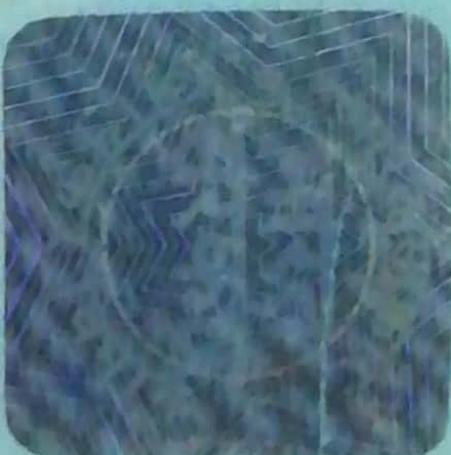
29/05/1983

Permanent Account Number

AVBPP5794L

C. Parth

Signature



01032008

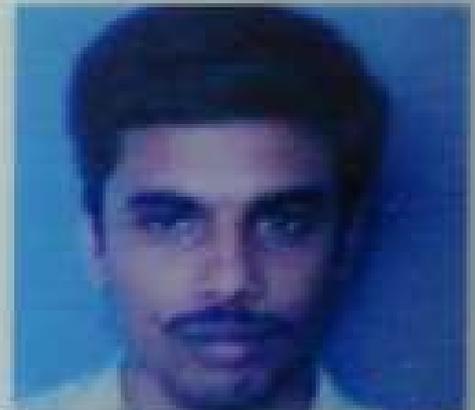


# India Driving Licence(Tamilnadu)

Form 7

DOI 16/01/2006

D.L.No TN49Z20060000195  
 Name PARTHASARATHY C  
 S/D/W of CHANDRA MOHAN T  
 Address  
 ONO 2/117 NNO 1346  
 KAVI BHARATHI NAGAR  
 PERUMANDI KUMBAKONAM TK  
 Temp. Addr.



D.O.B. 29/05/1983 B.G. :

Punishments:

Ent.No. (TN68 /AED/0000482/2012 04/05/2012 4:51:35 PM

Licensed to drive throughout India vehicles of the following descriptions  
 M/CYCL.WG 16/01/2006 TN49Z LAMY 04/05/2012 TN68

Non-Transport Veh. Valid upto 15/01/2026



Signature of the Holder

BC

சான்றிதழ் எண்  
Certificate No

2577242



7-99

மாநிலக் குறியீடு எண்  
District Code

ம.உ.உ. குறியீடு எண்  
Taluk Code

கிராமக் குறியீடு எண்  
Village Code

1	1	
0	4	
0	2	6

### சாதிச் சான்றிதழ் COMMUNITY CERTIFICATE

தலைவர் சுப்பிரமணியன் கிராமம் செங்கமலை  
செங்கமலை மாவட்டம், மதுரை மாவட்டம், செங்கமலை தாலுகா, செங்கமலை கிராமம்  
 கிராமம் செங்கமலை  
 கிராமம் செங்கமலை  
 கிராமம் செங்கமலை

மதுரைக் கிராமம் அரசு ஆணை நம்பிக்கை எண் 28 சென்னை 1954 ஆண்டு  
 விசேஷ பிரேரணை பின்பற்றி நடைமுறை அரசு எ.7.501 மாவட்ட எண் 95  
 பிரேரணை பின்பற்றி சான்றிதழ் எண் சான்றிதழ் எண் 2577242

This is to certify that \_\_\_\_\_ Son / Daughter  
 of Thru \_\_\_\_\_ of  
 Village / Town, \_\_\_\_\_ Taluk,  
 District of the State of Tamil Nadu belongs to

Community which is recognized as a Backward Class as per Government Order (Manuscript series) No. 28 Backward Classes and Most Backward Classes Welfare dated 19th July 1954 vide Serial No

1. தலைவர் / தலைவர் / தலைவர் சுப்பிரமணியன்  
 கிராமம் செங்கமலை மாவட்டம் செங்கமலை தாலுகா செங்கமலை  
 கிராமம் செங்கமலை மாவட்டம் செங்கமலை தாலுகா செங்கமலை  
 கிராமம் செங்கமலை மாவட்டம் செங்கமலை தாலுகா செங்கமலை

2. It is certified that Thru/Tmt/Selvan/Selvi \_\_\_\_\_ and  
 his/her family ordinarily reside(s) at \_\_\_\_\_ Village/Town  
 \_\_\_\_\_ Taluk \_\_\_\_\_ District of Tamil Nadu

முத்திரை  
Seal



சுயாதீன  
Signature

திகதி  
Date

அரசு அதிகாரி  
Name in Capital Letters

அரசு அதிகாரி  
Designation

சுப்பிரமணியன்  
9/3/99  
 சாதி குறைபாடு உள்ளவர்களுக்கு  
 சாதிச் சான்றிதழ்  
 உறுதிப்படுத்துகிறேன்

9/3/99

ANNEXURE-I

CERTIFICATE FROM THE ORGANISATION WHERE THE CANDIDATE IS EMPLOYED

Certified that Mr./Ms./Mrs. PARTHASARATHY C is  
employed as ASSISTANT PROFESSOR (Designation) in the  
MECHANICAL ENGINEERING (Department/Division Name)  
of ARASU ENGINEERING COLLEGE, KUMBAKONAM - 612501  
(Institution / Industry Name).

We have no objection in forwarding his/her application for the Ph.D. Research Programme.

FOR FULL TIME:

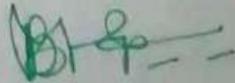
The candidate will be sanctioned leave for the duration of the research programme and will be relieved from duty from \_\_\_\_\_ to \_\_\_\_\_ to undertake the full time research work in the University.

FOR PART TIME:

The candidate will be permitted to undertake part time study in the University/College and will be allowed to be present for discussions with the supervisor, attending course works, conduct of experiments and participations in seminars and related presentations. Further the required facilities at our organization will also be provided to the candidate for doing research.

Date: 24.06.2020

Signature of the Head of Organization with office seal

  
**PRINCIPAL**  
**ARASU ENGINEERING COLLEGE**  
**Kumbakonam - 612 501**