



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

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

Date of Application:24-06-2021

Department	CIVIL ENGINEERING	Application No.	202110083
Area of Research	TRANSPORTATION PLANNING	Research Mode	FULL TIME

**Name** :ADAM SMITH  
**Date of Birth / Age** :04-06-1991 / 30 Years  
**Gender** :MALE  
**Category** :BC  
**e-Mail ID** :smithcivil@gmail.com  
**Mobile** :9500774478



<b>Father's/Husband's Name</b>	GANESAN	<b>Father's/Husband's Occupation</b>	RETD. PSE
<b>Family Income</b>	2,00,000	<b>Residential Type</b>	RURAL
<b>Birth Place</b>	RAJAPALAYAM	<b>Mother Tongue</b>	TAMIL
<b>Religion</b>	CHRISTIAN	<b>Martial Status</b>	SINGLE
<b>Aadhaar No.</b>	942028170625	<b>PAN No.</b>	BLPPA8208R
<b>Physically Challenged</b>	NO	<b>Type of Disability</b>	-
<b>Address for Communication:</b> 5/177 MAMANNAR THIRUMALAI NAGAR , OPP TO COOPERATIVE MILLS SRIVILLIPUTTUR VIRUDHUNAGAR DISTRICT TAMILNADU INDIA Pin-626125		<b>Permenant Address:</b> 5/177 MAMANNAR THIRUMALAI NAGAR , OPP TO COOPERA SRIVILLIPUTTUR VIRUDHUNAGAR DISTRICT TAMILNADU INDIA Pin-626125	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
B.TECH	CIVIL ENGINEERING	KALASALINGAM UNIVERSITY	2013	6.7571	FIRST CLASS	REGULAR
M.TECH	CONSTRUCTION ENGINEERING AND MANAGEMENT	KALASALINGAM UNIVERSITY	2015	8.58	FIRST CLASS WITH DISTINCTION	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature
KALASALINGAM INSTITUTE OF TECHNOLOGY	ASSISTANT PROFESSOR	2015-06-01	2017-06-15	TEACHING

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202110083_210628111610	VHD40072647528	28-06-2021	600	SUCCESS

## **Research Proposal**

### **Systematic Approach to Transport and Economic Interaction**

Transportation system is considered as the artery of a nation. Road Transport Infrastructure, because of its Accessibility, Flexibility in operation and Reliability it occupies a prime position in the Transportation system. So, Road Transport is vital to the Economic Development and social integration of the country. Road Transport system is a massive sector which governs the Economic productivity and growth directly and indirectly. India's Transport system is one of the most extensive in the world . It accounts for a share of 6.4% in India's Gross Domestic Product (GDP). In which the road transport alone contributes approximately 4.8% of the GDP which carries 65% of freight traffic and 88% of passenger traffic. The transport sector is greatly influenced by the availability and affordability of infrastructure, Vehicles and fuel. India produces only 15% of its fuel demand and remaining 85% of demand is imported, which accounts for 3% of GDP in the year 2014 – 2015 and its likely to increase to about 3.5% by the year 2030. Besides this imported fuel cost, Loss in Economy due to accidents in India , due to Poor transportation safety, especially in road sector (138,000 road fatalities recorded in 2015) , which accounts for 3% GDP of India . This vulnerable and affecting the sustainable Economic development. A conventional method is not effective to face the challenges and minimize these unprecedented Economic losses and achieve Efficiency in complex Transportation systems . Transport Economy system is a complex system with interdisciplinary system and connectivity between its subsystems. other multidisciplinary systems such as population, transport, energy resources, economy, and environment and exhibits a dynamic behavior. Hence it is not appropriate to use the conventional approach to describe the characteristics of this complex system. A Systematic approach by integrating the transportation aspects with the all possible interdisciplinary aspects is required to minimize these economic losses and achieve efficiency in usage of transportation systems by implementing the Transport – Economics interaction results in planning stage of any Transportation infrastructure projects.

# KALASALINGAM UNIVERSITY

Kalasalingam Academy of Research and Education  
(Under Section 3 of UGC Act 1956)



Register No : 9909003008

The Board of Management of the Kalasalingam University, hereby makes known that  
Ms./Mr. **ADAM SMITH G** .....has been admitted to the  
Degree of ..... **Bachelor of Technology in Civil Engineering** .....  
he / she having been certified by duly appointed examiners to be qualified to receive the same  
**First Class**  
and having been placed in the .....  
at the examination held in ..... **Apr/May 2013** .....

Given under the seal of the University



Anand Nagar,  
Krishnankoil - 626 126,  
Tamil Nadu, India

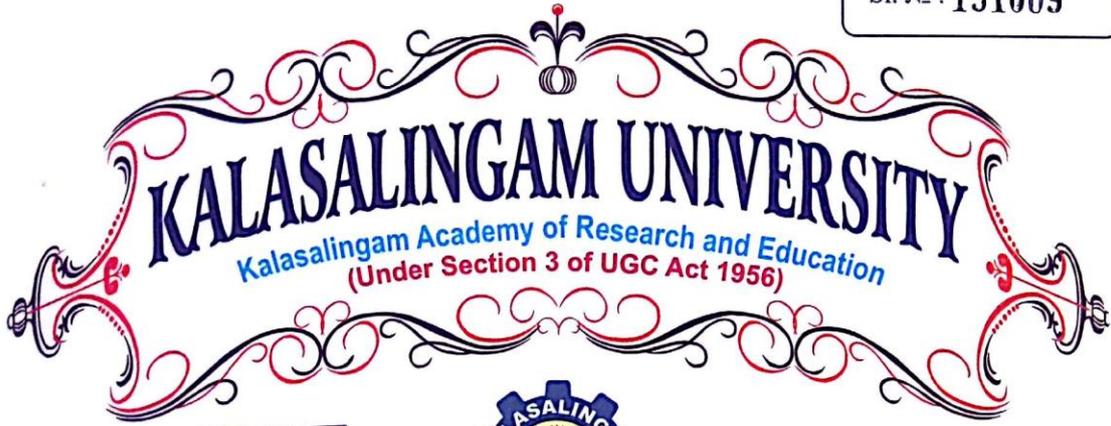
Date: 14/09/2013

Controller of Examinations

Registrar

Vice - Chancellor

Sl. No : 151009



Register No : 9913122005

The Board of Management of the Kalasalingam University, hereby makes known that

Ms./Mr. **ADAM SMITH G** .....has been admitted to the

Degree of **Master of Technology in Construction Engineering and Management** .....

he / she having been certified by duly appointed examiners to be qualified to receive the same

**First Class with Distinction** and having been placed in the .....

at the examination held in **Apr/May 2015** .....

Given under the seal of the University



Anand Nagar,  
Krishnankoil - 626 126,  
Tamil Nadu, India

Date: 29/08/2015

Controller of Examinations



Registrar

Vice - Chancellor





**KALASALINGAM UNIVERSITY**  
 (Kalasalingam Academy of Research & Education)  
 (Under Section 3 of UGC act 1956)  
 Anand Nagar, Krishnankoil – 626 126 Tamil Nadu, INDIA

Sl. No : 99101291

**CONSOLIDATED GRADE CARD**

Name of the Student : ADAM SMITH G Register No : 9909003008 Branch : B.Tech-Civil Engineering Batch : 2009-2013

SEM.	COURSE CODE	NAME OF THE COURSE	ATT. CODE	CREDITS	GRADE	MONTH & YEAR OF PASSING	SEM.	COURSE CODE	NAME OF THE COURSE	ATT. CODE	CREDITS	GRADE	MONTH & YEAR OF PASSING	
<b>CGPA COURSES</b>														
3	CHY05	Chemistry	H	3	B	Nov/Dec 2009	6	CV307	Design of Steel Structures	9	4	C	Apr/May 2012	
4	CV102	Basic Civil and Mechanical Engineering	H	4	A	Nov/Dec 2009	6	CV308	Transportation Engineering II	8	3	C	Apr/May 2012	
4	HSS101	English for Technical Communication I	H	2	B	Nov/Dec 2009	6	CV362	Advanced Structural Analysis	8	3	D	Apr/May 2012	
7	MAT101	Mathematics I	H	3	D	Nov/Dec 2012	6	HSS011	English Advanced Level	9	3	B	Apr/May 2012	
1	MEC101	Engineering Drawing	H	2	D	Nov/Dec 2009	6	MEC206	Composite Material Science	9	3	C	Apr/May 2012	
1	PHY111	Physics I	H	3	C	Nov/Dec 2009	6	CV381	Environmental Engineering Laboratory	H	2	B	Nov/Dec 2011	
1	CHY181	Chemistry Laboratory	9	1	C	Nov/Dec 2009	6	CV383	Irrigation and Environmental Engineering Design and Drawing	9	2	A	Apr/May 2012	
1	MEC181	Workshop	H	1	C	Nov/Dec 2009	7	CV451	Rehabilitation of Structures	H	3	B	Nov/Dec 2012	
2	CHY101	Environmental Sciences	8	2	B	May 2010	7	CV499	Project Work	H	10	A+	Nov/Dec 2012	
2	CSE102	Programming Languages	9	2	B	Nov/Dec 2012	8	CV366	Geographic Information Systems	H	3	A	Apr/May 2013	
2	EEE101	Basic Electrical and Electronic Engineering	8	4	C	July 2010	8	CV401	Estimating and Costing	9	3	B	Apr/May 2013	
2	HSS102	English for Technical Communication II	9	2	A	May 2010	8	CV402	Earthquake Resistant Design of Structures	9	3	A	Apr/May 2013	
2	MAT102	Mathematics II	8	3	B	July 2012	8	CV454	Pre-Stressed Concrete Structures	9	3	A	Apr/May 2013	
2	MEC102	Engineering Mechanics	H	3	A	July 2011	8	EEE407	Electric Energy Generation Utilization and Conservation	9	3	A	Apr/May 2013	
2	PHY112	Physics II	8	3	E	Nov/Dec 2010	8	HSS001	Total Quality Management	H	3	B	Apr/May 2013	
2	CSE181	Programming Languages Laboratory	9	1	B	May 2010	8	CV491	Computer Aided Design & Drawing	H	2	A	Apr/May 2013	
2	PHY181	Physics Laboratory	H	1	C	May 2010	<b>Non-CGPA COURSES</b>							
3	CV281	Mechanics of Solids	H	4	C	Apr/May 2011	7	NCG1004	National Service Scheme	3		Pass		
3	CV282	Fluid Mechanics	H	4	D	Nov/Dec 2010	7	NCG1005	Extracurricular Activities	3		Pass		
3	CV283	Surveying	H	3	C	Nov/Dec 2010	7	NCG2001	Industrial Training - I	3		Pass		
3	CV284	Geology & Building Materials	9	3	C	Nov/Dec 2010	7	NCG2002	Industrial Lectures	3		Pass		
3	HSS006	Professional Ethics	H	3	B	Nov/Dec 2010	7	NCG2003	International Certifications	3		Pass		
3	MAT201	Mathematics III	H	3	B	Apr/May 2011	7	NCG3002	International Proficiency Exams-1	3		Pass		
3	CV281	Strength of Materials Laboratory	H	2	C	Nov/Dec 2010	8	NCG3003	Industrial Training - II	3		Pass		
3	CV282	Fluid Mechanics Laboratory	8	2	B	Nov/Dec 2010	Category wise total credits earned							
3	CV283	Surveying Laboratory	H	2	A	Nov/Dec 2010	CI: Humanities	13	CE: Basic Sciences	25	CE: Basic Engineering	17	CE: Professional Major	110
4	CV205	Strength of Materials	H	4	D	Nov/Dec 2011	CE: Minor Elective	6	CE: Free Elective	6				
4	CV206	Hydraulics & Hydraulic Machinery	H	4	D	Apr/May 2011								
4	CV207	Concrete Technology	H	3	B	Apr/May 2011								
4	CV208	Mechanics of Soils	H	4	B	Apr/May 2011								
4	CV209	Water Supply Engineering	H	3	C	Apr/May 2011								
4	MAT211	Numerical Methods	9	3	B	Apr/May 2011								
4	CV284	Advanced Surveying Laboratory	H	2	A	Apr/May 2011								
4	CV285	Computer Aided Building Drawing	H	2	B	Apr/May 2011								
4	CV286	Soil Mechanics Laboratory	H	2	B	Apr/May 2011								
5	OME111	Corrosion Science and Engineering	9	3	B	Nov/Dec 2011								
5	CV281	Structural Analysis	9	4	C	Nov/Dec 2012								
5	CV302	Transportation Engineering I	8	3	D	Nov/Dec 2011								
5	CV303	Design of Concrete Structures	8	4	B	Nov/Dec 2011								
5	CV304	Geotechnical Engineering	8	3	D	Nov/Dec 2011								
5	CV205	Sanitary Engineering	8	3	B	Nov/Dec 2011								
5	CV332	Construction Techniques and Practices	9	3	A	Nov/Dec 2011								
5	CV382	Construction Laboratory	H	2	A	Nov/Dec 2011								
6	BTT101	Pharmaceutical Biotechnology	9	3	A	Apr/May 2012								
6	CV388	Irrigation Engineering	9	3	B	Apr/May 2012								

CGPA CREDITS				NON-CGPA CREDITS	
EARNED	TOTAL TO BE EARNED	CGPA	CLASS AWARDED	EARNED	TOTAL TO BE EARNED
177	177	6.7571	First Class	21	18

Place : Krishnankoil  
 Date : 05/06/2013

Controller of Examinations



Sl. No : 98990009

Anand Nagar  
Krishnankoil – 626 126  
Tamil Nadu, INDIA



**M.Tech Degree Examinations**  
**CONSOLIDATED GRADE CARD**

Name of the Student: ADAM SMITH G  
Branch: Construction Engineering and Management

Register No: 9913122005  
Batch: 2013-2015

SEM	COURSE CODE	NAME OF THE COURSE	ATT. CODE	CREDITS	GRADE	MONTH & YEAR OF PASSING
<b>CGPA COURSES</b>						
1	CIV5101	Smart Construction Materials	H	3	B	Nov/Dec 2013
1	CIV5102	Construction Techniques and Equipments	H	3	B	Nov/Dec 2013
1	CIV5103	Project Formulation and Appraisal	H	3	B	Nov/Dec 2013
1	CIV5104	Quality Control and Assurance in Construction	9	3	B	Nov/Dec 2013
1	CIV5121	Maintenance and Rehabilitation of Structures	H	3	A	Nov/Dec 2013
1	MAT5008	Statistics and Computational Techniques	H	3	D	Nov/Dec 2013
-----						
2	CIV5105	Contract laws and regulations	H	3	B	Apr/May 2014
2	CIV5106	Construction planning, scheduling and control	H	3	A	Apr/May 2014
2	CIV5107	Project Safety Management	8	3	B	Apr/May 2014
2	CIV5108	Computer Applications in Construction Engineering and Planning	H	3	A	Apr/May 2014
2	CIV5181	Construction Practices and Planning Lab	9	2	S	Apr/May 2014
2	CIV6101	Advanced Concrete Technology	8	3	A	Apr/May 2014
2	CIV6103	Disaster Resistant Structures	H	3	A	Apr/May 2014
-----						
3	CIV5182	Practical Training	H	2	A	Nov/Dec 2014
3	CIV6108	Recent Advances in Construction Materials	H	3	B	Nov/Dec 2014
3	CIV6109	Self Compacting Concrete	H	3	C	Nov/Dec 2014
3	CIV6112	Tsunami Resistant Structures	H	3	C	Nov/Dec 2014
3	CIV6198	Project Phase-I	H	6	A	Nov/Dec 2014
-----						
4	CIV6199	Project Work Phase-II	H	12	S	Apr/May 2015

**CGPA CREDITS**

EARNED	TOTAL TO BE EARNED	CGPA	CLASS AWARDED
67	67	8.58	First Class with Distinction

Please see overleaf for details

Place : Krishnankoil  
Date : 06/06/2015



*M. Pranjana*  
Controller of Examinations

Serial No.: 9208



# KALASALINGAM UNIVERSITY

(Kalasalingam Academy of Research and Education)

(Under Section 3 of UGC Act 1956)

(Accredited by NAAC with B Grade with a CGPA of 2.81)

Anand Nagar, Krishnan Koil - 626 126.

Srivilliputtur (Via), Virudhunagar (Dt), Tamil Nadu, India

## TRANSFER CERTIFICATE

1. Name of the pupil : ADAM SMITH G
2. Date of Birth : 4/6/1991
3. Nationality, Religion and Caste : Indian, Christian and Pallan
4. Date of joining to the university : 3/8/2013
5. Course details
  - a) Registration no. : 9913122005
  - b) Degree : M.Tech
  - c) Specialization : Construction Engineering and Management
  - d) Batch : 2013 - 2015
6. Whether qualified for promotion to a higher class : Yes (Refer the Grade Sheet)
7. Is there any break during the studies (if so specify the period) : No
8. Whether the pupil has paid all the fees to the University : Yes
9. Date on which application for TC was made : 30/4/2015
10. Date on which actually the pupil left the university : 9/4/2015
11. Medium of instruction : English

Date : 30/4/2015



REGISTRAR



## KALASALINGAM INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Govt. of Tamil Nadu, Affiliated to Anna University, Chennai)  
Anand Nagar, Krishnankoil-626 126, Srivilliputtur (Via), Virudhunagar Dist., Tamil Nadu.  
Phone : 04563-299530 / 289321      www.kit-edu.in      E-mail : kitprl@yahoo.com

"Kalvivalal"

**T.Kalasalingam**, B.Com.,  
Founder - Chairman

"Ilayavallal"

**K.Sridharan**, M.Com., MBA., M.Phil.,  
Secretary

**Dr.S.HARIKRISHNAN**, M.E., Ph.D.,  
Principal

Dt. 05.07.2017

### EXPERIENCE CERTIFICATE

This is to certify that **Mr.G.ADAM SMITH**, has worked as Assistant Professor in the Department of Civil Engineering from 01.06.2015 to 15.06.2017

His conduct and character are good during the tenure.



*S.H. SMITH*  
PRINCIPAL

PRINCIPAL  
KALASALINGAM INSTITUTE OF TECHNOLOGY  
ANAND NAGAR,  
KRISHNANKOIL-626126

आयकर विभाग  
INCOME TAX DEPARTMENT



भारत सरकार  
GOVT. OF INDIA

G ADAMSMITH

GANESAN

04/06/1991

Permanent Account Number

BLPPA8208R

*G. Adam Smith.*

Signature



24012014



सत्यमेव जयते

## India Driving Licence(Tamilnadu)

Form 7

DOI 12/07/2012

D.L.No : TN67Z.20120005927

Name : ADAM SMITH G

S/D/W of : GANESAN M

Address :

5/17A/11, MAMANNAR THIRUMALAI NAGAR

THIRUVANNAMALAI, SRIVILLIPUTTUR

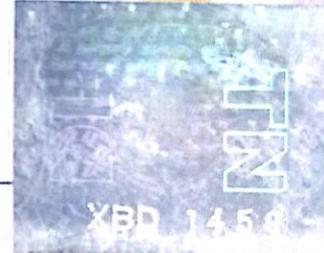
VNR 626125

Temp.Addr:

SHRI HARI DRIVING SCHOOL

D.O.B. : 04/06/1991

B.G. :



Punishments:

R.Dis...../200 dt.

BC

சான்றிதழ் எண் :  
Certificate No.Sl.No: 146/06  
6375980மாவட்டக் குறியீடு எண் :  
District Code

17

வட்டக் குறியீடு எண் :  
Taluk Code

01

கிராமக் குறியீடு எண் :  
Village Code

041

சாதிச் சான்றிதழ்  
COMMUNITY CERTIFICATE

மாபட்டம் ..... வட்டம் .....  
கிராமம்/நகரம், திரு/திருமதி / செல்வி/  
செல்வன் ..... தகப்பனார்/கணவர்  
பெயர்.....  
"கிறிஸ்தியன் - பள்ளம்"

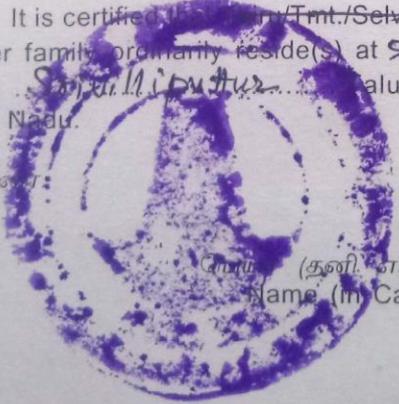
வகுப்பைச் சார்ந்தவர் அரக ஆணை நிலை எண் 28, பிற்பட்ட மற்றும்  
மிகவும் பிற்பட்ட பிரிவின் நலத் துறை, நாள் 19-7-1994 வரிசை எண் 18-ஈ படி,  
பிற்பட்ட பிரிவினைச் சார்ந்தவர் எனச் சான்றளிக்கப்படுகிறது.

This is to certify that ADAM SMITH Son / Daughter of  
Thiru GANESAN of North Srivilliputtur  
Village / Town, Srivilliputtur Taluk,  
Virudhunagar District of the State of Tamil Nadu belongs to  
"CHRISTIAN - PALLAN" Community, which is recognised as  
a Backward Class as per Government Order (Ms.) No. 28, Backward Classes  
and Most Backward Classes Welfare, dated 19th July 1994  
vide Serial No. 18-.....

2. திரு/திருமதி / செல்வன் / செல்வி .....  
என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாட்டில்  
மாவட்டத்தில் .....  
கிராமத்தில் / நகரத்தில் வசித்து வருகிறார்கள் எனச் சான்றளிக்கப்படுகிறது.

2. It is certified that ADAM SMITH and  
his/her family primarily reside(s) at Sriva. Nagar, North Srivilliputtur  
Town, Srivilliputtur Taluk, Virudhunagar District of  
Tamil Nadu.

முத்திரை :  
Seal.

கையொப்பம் :  
Signatureநாள் :  
Dateபெயர் (தனி எழுத்துக்களில்)  
Name (in Capital Letters)பதவி :  
Designation

ச. சிவசுந்தரன்  
11/2/06  
Zonal Deputy Tahsildar-1  
Srivilliputtur.

Coro: 457/17  
Korica: 7073/17

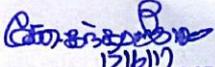
**FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES  
APPLYING FOR APPOINTMENT TO POSTS UNDER THE GOVERNMENT OF INDIA**

This is certify that Shri/Smt. Gr. Adam Smith  
Son / Daughter of M. Ganesan Residing at  
5117, mamanna Thikumalai Street Thiruvannamalai Village / Town  
Nagor Street Thiruvannamalai Village / Town  
Srivilliputtur Taluk Virudhunagar District

in the State of Tamil Nadu.

Thiru / Tmt. Gr. Adam Smith belongs to the christian fallan  
community which is recognised as a backward <sup>s.no 22</sup> class under the Government of India.  
Ministry of Welfare Resolution No. 12011 / 68 / 93 - BCC (C) dated 10th September, 1993  
Published in the Gazette of India Extra - ordinary Part I Section I dated 13th September  
1993 Shri / Smt. Gr. Adam Smith and / or his family ordinarily  
residence in 5117, mamanna Thikumalai nagor Street Thiruvannamalai Village  
Srivilliputtur Taluk Virudhunagar District  
of the Tamil Nadu state.

This is also to certify that he / she does not belong to the persons / Sections  
(Creamy Layer) mentioned in column 3 of the Schedule of the Government of India  
Department of Personal and Training O.M. No. 36012 / 22 / 93 - Estt. (SCT) dated 8-9-93

  
Village Administrative Office  
North Srivilliputhur Village  
Srivilliputhur T.k.  
Virudhunagar Dt

  
REVENUE INSPECTOR  
SRIVILLIPUTTUR.

  
District Magistrate  
TAHSILDAR  
SRIVILLIPUTTUR  
Deputy Commissioner, etc.,

Note : 1. The term 'Ordinarily' used here will have the same meaning as in Section 20  
of the Representation of the Peoples Act. 1950

2. List of authorities empowered to issue OBC Certificate.

- i) District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner  
Addl. Deputy Commissioner / Dy Collector / Ist Class Stipendiary Magistrate / Sub Divisional  
Magistrate / Extra Assistant Commissioner / Taluka Magistrate / Executive.
- ii) Chief Presidency Magistrate / Addl. Chief Presidency Magistrate / Presidency
- iii) Revenue Officers not below the rank of Tahsildar (iv) Sub-Divisional Officers of  
the area where the candidate and / or his family normally resides.