Scott. II 48—2,868—9-2-20.

Home (192 /) Department.

Education

Ordinary SERIES.

~~Letter~~

G.O. No. 157

DATED 1 2 21

98

[Despatch Abstract.]

College of Engineering.-

Vacant post of Professor of Civil Engineering -

filling up - Government of India addressed.

BACK F

G.O.	No.	Department.	Date.	

FURTHER

G.O.	No.	Department.	Date.

2

CURRENT FILE.

Home (Education) **DEPARTMENT.** Hon 2801A

Received ..... 191 . *Registered* 23-9-1920

Subject.

Requesting that the Secretary of State be urged to recruit in England suitable officers for the posts of Professor of Civil Engineering and Professor of Technical Chemistry, in the College of Engineering, Guindy.

ENCLOSURES
No.
Spare copies

R.C. No. 6782/20

Station Ootacamund , *Dated the* 22nd September 1920

From (Name) The Hon'ble Mr.R.G.Grieve, M.A.

(Designation) Ag.Director of Public Instruction.

To The Secretary to the Government of Madras,

Home (Education) Department.

Sir,

The Principal, College of Engineering, has brought to my notice the fact that the senior staff of the College is very inadequate.

The sanctioned scale of staff for the college in the cadre of the Indian Educational Service consists of one Professor of Mechanical Engineering, one Professor of Higher Electrical Engineering, two Professors of Civil Engineering, one Professor of Technical Chemistry and one Professor of Mathematics. Of these the post of Professor of Higher Electrical Engineering and the Additional Professorship of Civil Engineering are held by Messrs. H.B.Matthews and G.Nagaratnam Ayyar. The Professorship of Mathematics is held

See page 13 of C.B.E. for 1920-21, Rep. 229, dy 21-2-20. (C)

S.O. 893, dy 7.8.20 (H)

held by a Provincial Service officer who is being recommended by me separately for appointment to the same post in the Indian Educational Service and the other three are vacant.

The Professorship of Mechanical Engineering has been vacant ever since Mr.Cartwright went on leave in July 1919. The acting Principal suggests that unless a man with suitable qualifications can be spared from the Public Works Department the vacancy should be advertised in the hope that a suitable candidate may be forthcoming.

The Professorship of Civil Engineering which will become permanently vacant from 4-10-19 (20) as Mr.Barker has been permitted to resign his appointment, has not been filled up. As an Indian has been appointed to the post of Additional Professor of Civil Engineering, it will be necessary, in the opinion of Mr.Cartwright, that the post vacated by Mr.Barker should be held by a European officer with suitable qualifications including experience in the design and working of modern University Civil Engineering laboratories. In this connection it may be mentioned that the application of Mr.K.C.Chakko who has obtained the degree of M.Sc (Engineering), London University, was considered and of him Mr.Cartwright writes----

'Mr.Chakko has certainly good theoretical qualifications but he has had very little practical experience, only three months, done apparently while he was undergoing his theoretical training at University College. He has had no teaching experience, and judging by the date of his certificate from the Christian College is rather young to be placed over Instructors, some of whom have had considerable teaching experience and practical knowledge of Surveying. Moreover at the present critical stage of the development of the College it is very necessary to have some one with good practical training who can undertake the laying out and operation of the new Hydraulic Laboratory. Taking into account these points I do not consider Mr.Chakko a suitable candidate for the appointment of Professor of Civil Engineering.'

In these circumstances I request that the Secretary of State be urged to recruit in England suitable officers for the posts of Professor of Civil Engineering and Professor of Technical Chemistry,

offering

offering them if necessary higher initial salaries.

I have the honour to be,

Sir,

Your most obedient servant,

R. G. Greene
22-9-20

Ag.Director of Public Instruction.

Home (Education) Dept.

Telegram.

To

Education, India.

(In) consequence (of) resignation (of Mr.) Barker, Professorship, Civil engineering, Engineering College, Madras, Member, Indian Educational Service, (is) now permanently vacant. Local D.P.I. prefers (that) a European officer with suitable qualifications including experience in (the) design and working of modern University Civil engineering laboratories and able (to) undertake (the) laying out and operation (of) large hydraulic laboratory should be recruited to fill post. As work in college is suffering for want of staff Madras Government will be glad if (the) Secretary of State can be moved by telegram (to) recruit suitable candidate in England and intimate as soon as possible whether he can.

N.K. 25-10-20.

C.R. 25-10-20.

26/10/20

DESPATCHED 26 OCT. 1920 MVS 26.10.20

X 2801 A-2

p. 2 of c.f.

DESPATCHED 26 OCT. 1920 MVS 26.10.20

P.C.

721

C. 3. POSTS & TELEGRAPHS. No.

Received here at ____ H. ____ M.

11 NOV 1920 DEPARTMENT OFFICE GOVT. OF MADRAS

MADRAS 10 NOV 20 G.T.D.

0 PG SIMLA 10 STE 7'9 MADRAS HOME MADRAS

=1517 EB YOUR TELEGRAM 2801= A WOULD YOU BE PREPARED TO ACCEPT K C CHAKKO FOR APPOINTMENT PROFESSOR CIVIL ENGINEERING IF CONSIDERED SUITABLE BY SECRETARY OF STATE FOR HIS QUALIFICATIONS SEE ACCOMPANIMENT TO EDUCATION DEPARTMENT LETTER 478 OF 7 TH MAY 1919 AAA FAILING WHICH IS NO SUITABLE PUBLIC WORKS DEPARTMENT OFFICER AVAILABLE FOR THE POST AS BOARD OF EDUCATION INDIA OF QUALIFIED CANDIDATES AAA ALSO OFFICE REPORT GREAT DEARTH SUGGEST ADVERTISEMENT IN INDIA = WORKS SIMLA =

2801= A 1517 =

inquiry respecting this Telegram.

Lal Chand & Sons—2418—5-9-18—35,000 Pcs. (Edn. II)

Esn. C No. 3479A
Ef. 11.20.

No. 1424

Government of India,
DEPARTMENT OF EDUCATION.
(Education)

REGISTRAR HOME DEPARTMENT
20 NOV 1920
GOVT. OF MADRAS

Delhi, the 25th November 1920

A copy of the undermentioned papers is forwarded to the Government of Madras for information with reference to the correspondence ending with this Department letter no.445, dated the 13th April 1920.

By order,

Wali Mohammad
Asstt. Secretary to the Govt. of India.

Letter from the India Office no.J. & P.7269/20, dated the 28th October 1920, and enclosures.

---

c.m.

Copy of a letter no.J. & P.7269/20, dated the 28th October 1920, from the Secretary, Judicial and Public Department, India Office, London, to the Secretary to the Govt.of ~~Madras~~ India, Educational Department.

The enclosed copy of correspondence with Capt. R.E. Stradling, M.C., regarding the Professorship of Mechanical Engineering at the College of Engineering, Guindy, is forwarded for information with reference to proceedings of the Director of Public Instruction, Madras, R.C. no.6782, dated the 20th September, 1920.

From Capt.Stradling dated 12.10.20.)
To " " " 22.10.20.)

The University
Edgbaston, Birmingham.

Sir,

I have received a communication ~~for~~ from C.L.Cartwright Esq. Act/Principal Engineering College, Guindy, India, stating he has been instructed (under Proc.of Director of Public Instruction, R.C. no.6782 of 1920 dated 20th September 1920) by the Director of Public Instruction to enquire whether I would apply for the Professorship of Mechanical Engineering, at the above College which is now temporarily vacant. I have further been asked to apply to you for particulars as to pay and terms of Service.

May I state that I should <u>not</u> be prepared to consider a <u>temporary appointment.</u> I understand the permanent appointment of Professor of Civil Engineering falls vacant next month and this would be work more in my own line.

However I should esteem it a favour if you would oblige me with full particulars of any of these appointments.

Yours truly,
R.E.Stradling, Capt.(late R.E.)
M.C., B.Sc., A.M.I.C.E., A.M. Am.Soc. C.E. Lecturer of Civil Engineering.

The Secretary for
India, India Office.

Public

J. & P.7033/20.

8/9

9

22nd October, 1920.

Sir,

In reply to your letter of the 12th instant, I am directed to inform you that the vacant Professorship of Mechanical Engineering allowed of a temporary appointment only, and so far as is known at this Office arrangements are being made to secure a temporary professor locally.

As regards Professorship of Civil Engineering, there are no vacancies at present being recruited in this country. It is, however, possible that the Secretary of State may shortly be asked to recruit for such an appointment or appointments, and if you will complete the enclosed form of application and forward it to the Board of Education it will be noted for consideration in connection with any such recruitment.

A copy of the regulations for appointments to the Indian Educational Service is also enclosed for your information.

I am, Sir,

Your obedient servant,

Sd. P.H. Dumbell,

Asstt. Secretary,

Judicial and Public Department.

Captain R.E. Stradling, M.C., B.Sc., A.M.I.C.E., A.M.Am.Soc. C.E.,

The University, Edgbaston, Birmingham.

C.F.—20.

(EDUCATION) 10 **DEPARTMENT.**

C. No. 99A

REGISTRAR HOME DEPARTMENT GOVT. OF MADRAS -8 JAN 1921

Received ..... 191 . *Registered* 8. 1. 1921

Subject.

Submitting with remarks an application from Kirpal Singh for the post of Professor of Civil Engineering in the College of Engineering, Guindy.

ENCLOSURES.
No.
Spare copies

C No. 102/21

Station Madras, *Dated the* 7th Jany 1921.

From (Name) R.G. Grieve Esquire, M.A.,

(Designation) Ag. Director of Public Instruction.

To The Secretary to the Government of Madras,

HOME (EDUCATION) Department.

Sir,

Enclosure?

Submitted to Government in continuation of the applications for the post of Professor of Civil Engineering, College of Engineering.

2. It will be observed that the applicant is much over aged and it is also very doubtful as a Sikh whether he will be able to get on with the people over here. His certificates are not particularly good. In fact the only good one is the one granted to him before he had been home. The Hydraulic Laboratory

...the City and Guilds is not a first class laboratory, I am informed, and he did not specialize in the particular branches of Civil Engineering which are required for the Engineering College at Guindy.

for Director of Public Instruction.

I. S. S.

End

To

Bombay, 18th Dec. 1920.

The Honble Mr. R.G. Griev
Ag. Director of Public Instruction, Madras
through Principal College of Engineering, Poona.

REGISTRAR HOME DEPARTMENT
14 JAN 1921
GOVT. OF BOMBAY

Sir,

With reference to your advertisement for the post of Professor of Civil Engineering, I beg leave to offer myself as a Candidate for the same. I have over seven years' experience of a variety of big Engineering Works in the Irrigation Works Punjab and Elsewhere and am Employed as Assistant Professor in the College of Engineering, Poona since Feby. 1920. I attach a brief note regarding my practical Experience.

I am Sikh, born Jethuwal, Distt. Amritsar. I am Associate of the City and Guilds Institute, London, in Civil and Mechanical Engineering; B.Sc. (Engineering) in the University of London and further possess the diploma of Membership of the Imperial College of Science and Technology for postgraduate work.

My Salary in this College is 400-50-600 of the old scale. I expect an increase on the revision on lines sanctioned lately.

References:-
1. Oliver Hindley Esqr. Executive Engineer Punjab Irrigation Patiala
2. Rao Sahib L. Phul Chand Rai Executive Engineer Punjab Irrigation

I have the honor to remain
Sir
Your most obedient Servant
Kirpal Singh

Encls

P.S. I saw your advertisement while on Engineering tour in Bombay. I submit this application so as it may reach in time. I shall send further details on return.

Works executed by Kirpál Singh.

Design and Construction of buildings, roads, bridges, small masonry dams, retaining walls, very heavy and Extensive River and Torrent training Works, Subsoil water Experiments over 50 sq. miles, Observation of River and Canal Discharges (100 cusecs to 25000 Cusecs) over 250 in number; Successful putting of 250 artesian Pipes including preparing geological sections for all.

Experimenting on Notches for six months.

Experiments in Connection with lining media to prevent excessive percolation thro' channels for one year

Spring level experiments at 200 standpipes for 3 years.

Regulation at the head of Sirhind Canal (3000 – 13000 Cusecs) 2 years

Heavy Repairs to one mile long weir, 400' Sluices, 350' Regulator and Lock Channels 3 years

Diversion of the River Sutlej (Discharge at the time 20,000 cusecs) and laying 4 ft. deep floor in the bed of the River under a head of 20 ft water. It took six months.

Stone quarrying & running 30 miles of Ryline port.

Stock Ramming & laying extensive filter beds.

Construction of 2 steel girder bridges (spans 60 ft.)

Was running along with other things, a small workshop employing on the average 50 hands, all repairs to the steel shutters of one mile weir & Regulator Machinery were carried out there.

On return from England I was in charge of a Construction Subdivision where I built 30 masonry bridges, falls, regulators, 30 miles of Canal, scheme and laid Distributing outlets including Kennedy Gauge Outlets for 70 miles of the Canal. Last year I was Engineer in charge of the Construction of Dam Andhra Valley Power Scheme. ~~Regulator~~

13

I worked for about one year in different Firms in England and the time of recall I was Employed on an important Work by a London Firm of Engineers.

In the Punjab Irrigation I had done some reinforced Concrete also.

College of Engineering, Poona. Kripal Singh

14

14 15

THE ANDHRA VALLEY POWER SUPPLY CO,. LTD,.

SECTION: Dam Construction.

P.O.Thokarwadi, 20th February 1920.

Mr.Kirpal Singh has been engaged as an Engineer on these works since October 1st 1919 to date. He now leaves to better himself in taking up another appointment.

(Sd). R. A. BEACHER.

SUPERINTENDING ENGINEER.

15
15

Copy of Testimonial.

The Engineers Designing Co.,

HEAD OFFICE :—

86 GREAT PORTLAND St.

LONDON W.

October 19th 1916.

This is to testify Mr. Kirpal Singh has been in our employ since August last as Designer. During that time he has been carrying out work of considerable importance, and only leaves us now because of his immediate return to India on urgent Business.

THE ENGINEERS' DESIGNING Co.,

G. SEYMOUR HIGGINSON.

Copy of Testimonial.

The British Westing House
Electric & Manufacturing Company, Limited.

TRAFORD PARK,

MANCHESTER.

January 5th 1916.

TO WHOM IT MAY CONCERN.

This is to certify that Mr. Kirpal Singh worked with this Company from July to September, 1915, in our Switch and Transformer Test Departments. In both these departments he gave us every satisfaction, both as regards work, conduct and timekeeping.

(Sd.) A.P.M. FLEMING, M.I.E.E.,
Supdt., Transformer & Winding Dept.

Copy of Testimonial.

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY.

CITY AND GUILDS (ENGINEERING) COLLEGE,

EXHIBITION ROAD, LONDON, S. W.

January 17th 1917.

Ref. No. J. 179.

I have much pleasure in stating that in September 1913 Mr. Kipal Singh passed the Matriculation Examination of this College sufficiently well to be exempted from the First Year Course, that in October 1913 he entered this College as a Second Year student in the Department of Civil and Mechanical Engineering and attended regularly during the Sessions 1913-14 & 1914-15, and that at the end of the Course he was awarded the Diploma of Associate of the City and Guilds of London Institute (A. C. G. I.). During Session 1915-16 Mr. Kirpal Singh continued his studies and took a Post-Graduate Course in Railway Engineering. At the conclusion of this Course he was awarded the Diploma of Membership of the Imperial College of Science and Technology (D. I. C.) and at the same time he took the Internal B. SC., in Engineering in the University of London.

Throughout his stay in College, Mr. Kirpal Singh was diligent in his studies and exemplary in his conduct, and I consider that he possesses more than average ability.

I may say that the A. C. G. I., carries exemption from the Examination for Associate Membership of the Institution of Civil Engineers. (A.M. Inst. C. E.)

(Sd.) W. E. DALBY, M.I.C.E.,

M.A.F.R.S. etc.. Dean.

18 18 18

Copy of Testimonial.

CITY AND GUILDS (ENGINEERING) COLLEGE,

EXHIBITION ROAD, LONDON, S. W.

January 19th 1917.

ELECTRICAL ENGINEERING DEPARTMENT.

To whom it may concern:—

I hereby certify that Kirpal Singh A. C. G. I., D. I. C., was a student in this College during the session 1913-16.

He followed our ordinary Diploma course for the first two years and in the third year took an advanced course in "Railway Engineering," as a result of the work done Mr. Singh was awarded our Diploma A. C. G. I., (Associate of the City and Guilds of London Institute), and the Diploma of the Imperial College of Science and Technology, D. I. C.

Throughout his courses Kirpal Singh proved himself an earnest and intelligent worker, and I formed a high opinion of his ability. I feel sure he may be trusted to carry out work of an Engineering nature in a satisfactory manner.

(Sd.) T. MATHER, F.R.S., M.I.E.E.,
Professor of Electrical Engineering.

C.F.—29.

HOME (EDUCATION) **DEPARTMENT.**

C.No-185A

Received ..... 191 . *Registered* 17 1 1921

REGISTRAR HOME DEPARTMENT
10 JAN 1921
GOVT. OF MADRAS

Subject.

Submitting with remarks copy of letter from Mr. R.E. Stradling applying for the post of Professor of Civil Engineering, College of Engineering, Guindy.

ENCLOSURES.
No. .....
.....
Spare copies .....

N. Ref on Cur No. 102/21

Station M a d r a s , *Dated the* 14. 1. 1921

From (Name) A.G. Grieve Esquire, M.A.,

(Designation) Ag. Director of Public Instruction

To The Secretary to the Government of Madras,

Department.

Sir,

Submitted to Government in continuation of this office endorsement C. No. 102/21, dated 7th January 1921.

2. It will be observed that Mr. Stradling possesses exactly the requisite qualifications for the post of Professor of Civil Engineering, College of Engineering. His early appointment is strongly recommended.

DIRECTOR OF PUBLIC INSTRUCTION
10 JAN 1921
MADRAS

20

to G.O. No. 600 of 17th May 1920 he will be entitled in May 1921 to only Rs. 600/- plus Overseas Allowance.

C. Duboshumanta Chelh

for Director of Public Instruction.

Copy of letter from Mr. R.E. Stradling, dated 21st December 1920 to Mr. C.L. Cartwright.

Thanks very much for your letter of 25th November.

I am afraid the post will not fall to my lot (much as I should like it). The financial question will prevent it. As I think you know, I am married and have one little boy. This would mean two homes to keep up, and I do not expect the Indian Educational Service would grant sufficient to enable me to do it.

With regard to the particulars you ask they are as under.--

Age ...	30 in May 1921
Experience..	1. Faculty of Engineering - Bristol 1909-12.
	2. Works -- Structural work in steel and reinforced concrete Water supply, sewage disposal and sewerage These branches in design and as Resident Engineer
Military ...	Commissioned Officer, Royal Engineers - 4½ years. Military Cross and twice mentioned in despatches
Lecturing ..	Civil Engineering Department B'hons
My special subjects are	(1) Strength of materials (2) Theory of structures and reinforced concrete (3) Hydraulics and Sanitary Engineering.

P.S. My diplomas etc. are.-- M.C., B.Sc. (Eng.), A.M.I.C.E., A.M., A.M., Sec. C.E.

(True Copy)

C. Duboshumanta Chelh.
For Director of Pub. Inst.

---

(1)

Dr Banerjee's Building
Saharanpore. U.P.
21/12/20.

To
The Director of Public Instruction
Madras.

Sir,

Understanding that the post of Professor of Civil Engineering has fallen vacant under your kind control I beg to offer myself as a candidate for the same

As regards my qualifications I beg to state that I received the degree of M Sc. in Mech Eng from the University of California U.S.A. My major subject was hydraulics I entered the mechanical dept because their ~~mechanical~~ hydraulic laboratory is more extensive in Mechanical branch and they count hydraulics as a mechanical subject.

Dr Banerjee's Butterfly
Saharanpore. U.P.
21/12/20.

I am about 32 years
belong to a kayastha family
of the district of Chittagong - Beg

A few copies of testimonials
are attached here with for your
perusal.

I have the honour to be,
Sir,
yours most obediently
K. K. Guha
M.S. M.E.

P.S. Ref of two gentle men
Prof B. N. Das - Dacca College - Dacca, Bengal
Prof G. Das Gupta, David Hare Training College
Calcutta.

Prof M. W. Haskel - Dean of Mathe Dept } Univ of
Prof R. W. A. Raber - Mech Dept } California
Berkeley, Cal, U.S.A.

Dr Banerjee's Butterfly
Saharanpore 20A

I successfully carried out all the hydraulic laboratory works as well as other civil Engineering courses up to M.Sc. My Thesis is also a subject on Hydraulics. I have a very good idea of fitting a modern hydraulic laboratory.

I have got two years shop experience in America besides my 3 years work in hydraulic laboratory. Now I am employed in a temporary service for about 1½ years and engaged now in connection with water supply.

I was a reader for mathematics for Engineering students for 3 years in the Univ of California U.S.a. and in another occasion a teacher of Engineering subject for 4 months.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

on the nomination of the faculty of the College of Mechanics have conferred upon

Kamini Kumar Guha

The Degree of Master of Science in the Mechanical Engineering.

With all the rights and privileges thereto pertaining given at Berkeley the seat of the University this fourteenth day of May in the year Nineteen hundred and seventeen.

WM. STEPHENS,
Governor of the California and President of the Board of Regents

BENJ. IDE WHEELER,
President of the University.
H. B. LEUSCHNER,
Dean of the Graduate School.

UNIVERSITY OF CALIFORNIA
OFFICE OF THE PRESIDENT.

To whom it may concern:

I take pleasure in commending Mr. K. K. Guha who has been registered during the past years as a graduate student in the College of Mechanics at the University of California, and who to-day received the degree of Master of Science at the University of California. I am informed by the instructors under whom Mr. Guha has worked that he is conscientious, industrious and intelligent. He has applied himself to his studies assiduously and has given evidence that he would fill very satisfactorily any position to which he might be appointed.

Yours faithfully,

BENJ. IDE WHEELER,
President.

BERKELEY,
May 16, 1917.

OFFICE OF THE DEAN OF THE COLLEGE OF MECHANICS,

To whom this may concern:

This letter is to certify that Mr. K. K. Guha entered the College of Mechanics of the University of California in August 1912 and attended continuously until he received the degree of Master of Science in May 1917.

Mr. Guha completed satisfactorily the prescribed courses in Mechanical Engineering, and in addition, a number of post-graduate courses in Mathematics, Mechanical Engineering and Irrigation Engineering. The subject to which he gave most attention was Hydraulic and Hydraulic Machinery.

Mr. Guha's work in the University was uniformly satisfactory and he was regarded as a conscientious industrious worker with adoptability for Engineering work.

C. L. CORY,
Dean of the College of Mechanics.

January 9, 1918.

University of California.
OFFICE OF THE DEAN OF THE LOWER DIVISION.

This is to certify that Mr. K. K. Guha has been a student at the University of California since August 1912. He has pursued a course primarily in Mechanical Engineering, but has supplemented it with additional work in other lines, particularly in mathematics. His work here has been highly creditable. The Mathematics Department recognised his ability in Mathematics by appointing him a reader for the Department. The readers are always selected from amongst the best senior and graduate students taking work in that subject. I have always found Mr. Guha prompt and pains taking in his work both as a student and as reader. I take pleasure in commending him not only for his efficiency and ability as a student but for his uniform courtesy as well. I have always found him to be a thorough gentleman.

T. M. PUTNAM,
ASSOC. PROF. OF MATHEMATICS,
and Dean of the Lower Division.

Berkeley,
Jan. 11-1917.

APPLICATIONS ARE INVITED for a Post of PROFESSOR OF CIVIL ENGINEERING in the Indian Educational Service in the College of Engineering, Madras. Pay will normally be according to the revised scale of salaries which starts at or below the age of 25 with Rs. 400 a month, rising to Rs. 1,250 a month after about 20 years' service. The initial pay of candidates over 25 will be fixed according to their age and qualifications. There are also selection grades rising to Rs. 1,500 and Rs. 1,750 a month. Selected candidates of non-Indian domicile will receive in addition to pay an overseas pay ranging from Rs. 150 to Rs. 250 a month. Full particulars of the revised scale of salaries and further details as to the appointment may be obtained from THE DIRECTOR OF PUBLIC INSTRUCTION.

(2) Candidates should state their age, caste, qualifications and place of birth.

(3) The following special qualifications will be required —

(a) A sound theoretical training of University standard, with practical training and experience of constructional work (Civil or Military) extending over a period of at least five years.

(b) Previous teaching experience in Engineering Laboratories fitted with modern apparatus, as the successful candidate will be required to design and equip a new Hydraulic Laboratory.

(4) Candidates with European qualifications will be preferred.

(5) Copies of testimonials (which will not be returned) should be submitted along with the application. Two personal references should be given.

(6) Applications should reach THE DIRECTOR OF PUBLIC INSTRUCTION, Madras, by the 24th December, 1920.

R. G. GRIEVE.
Ag. Director of Public Instruction.

16122

INSURANCE

FIRE—BURGLARY—ACCIDENT—SICKNESS—MOTORCAR—HORSE-DRIVING ACCIDENTS—EMBEZZLEMENT—LIFT—PLATE GLASS.
LOW RATES—FAIR CONDITIONS.
PROMPT SETTLEMENTS.

Apply to—G. M. ROSE, Manager for India.
GENERAL ACCIDENT FIRE & LIFE ASSURANCE CORPN., LTD.,
(Incorporated in Great Britain.)
12-14, Churchgate St., Bombay.
Telephone—2570.

LEACH & WEBORNY, LTD.
THE LEADING DYERS & CLEANERS OF THE EAST.

ENTIRELY UNDER NEW MANAGEMENT.

IN consequence of the ever increasing demand for dyeing and cleaning we have engaged the services of an english Expert conversant with all practical methods and the Chemistry of Dyeing. These Works are now entirely under his management, and all modern European methods are being instituted. Our customers therefore are assured that goods entrusted to us will receive both careful and scientific Handling.

8529

The Holt Manufacturing Company

Carterpillar Gas Tractors, Combined Harvesters, Plows etc.

CATERPILLER.

To whom this may concern :

The bearer Mr. K. K. Guha, was employed by this Company during the Summer of 1916 in our Motor and Caterpillar Assembly Departments and is at present working in the Caterpillar Testing Department.

During his period of service with us, we found Mr. Guha reliable, Conscientious and energetic. We take pleasure in recommending him to any one to whom he may offer his services.

Yours very truly.

Stockton, California,
October. 4th 1917.

THE HOLT MANUFACTURING COMPANY,
R. J. ROWAN.
Employment Department.

Ministry of Munitions.

MECHANICAL TRANSPORT INSPECTIONS.

British War Department.

Local Inspecting Officer :
R. W. A. BREWER A.M.I.C.E., M.I.A.E.

CARE THE HOLT MFG. CO,
STOCKTON, CAL., U.S.A.

To whom it may concern :

This is to certify that Mr. K. K. Guha is personally known to me as he has been for sometime employed in the Holt Manufacturing Co., in the Caterpillar testing. He has also had the practical experience in constructing and driving these engines.

He has taken the highest degree in Mechanical Engineering from the University of California and his thesis on Hydraulic "Co-efficient of Discharge" on his Master's degree is a good piece of original work.

I have had the opportunity of finding out his capacity and have found him fully qualified as a Mechanical Engineer and wish to recommend him to any one who may utilize his service.

Your very truly,

ROBERT W. A, BREWER,
CAPT A.S.C.

Oct. 5-1917.

To whom it may cncern :

Mr. K. K. Guha has been known to me for about two years, and I take considerable satisfaction in availing myself of this means of submitting testimony in his behalf.

I have always found Mr. Guha ambitious, industrious, honest, and reliable. His attitude in all matters has been one of cordial frankness. In alertness of mind I consider him exceptional.

It gives me great pleasure to recommend Mr. Guha as a friend and as a gentleman, feeling certain that he will measure up, fully, to the qualifications indicated by each of these terms.

B. F. RABER.
ASSOC. PROF. OF MECH. ENGINEERING,
University of California.

Berkeley, Feb. 10th, 1917.

University of California.

To whom this may concern :

This letter is to certify that Mr. K. K. Guha entered the College of Mechanics oi tne University of California in August 1912 and attended continuously until he received the degree of Master of Science in May 1917.

Mr. Guha completed satisfactorily the prescribed courses in Mechanical Engineering, and in addition, a number of post graduate courses in Mathematics, Mechanical Engineering and Irrigation Engineering. The subject to which he gave most attention was Hydraulics and Hydraulic Machinery.

Mr. Guha's work in the University was uniformly satisfactory and he was regarded as a conscientious, industrious worker with adoptability for Engineering Work.

C. L. CORY,
Dean of the College of Mechanics.

January 9, 1918.

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23 26

University of California.

MECHANICAL ENGINEERING.

To whom it may concern :

This is to certify that Mr. K. K. Guha is a student in the College of Mechanics, University of California, and that he expects to graduate with the degree of Master of Science in May, 1917.

I have known Mr. Guha personally for three years, in connection with his College work. He took the course in Theoretical Mechanics under me in his junior year, and in the following year the courses in Hydraulics and Hydraulic Machinery. During the past term he took a graduate course under me in Advanced Hydraulic Problems, and will work on the design of a small hydraulic turbine in the coming term. His thesis, upon which he is now working, is "A measurement of the coefficients of discharge for small circular, sharp-edged orifices where the contraction is not complete."

I have always found Mr. Guha a good student, hard working and very much interested in his work. I can certainly endorse his application as an instructor.

Very truly yours,

Berkeley Jan. 13, 1917.

JOSEPH N. LECONTE,
Prof. of Engineering Mechanics.

To whom it may concern :

This is to certify that Mr. K. K. Guha was a student in the subject of Kinematics Drafting (Motion in Machines, valve gears, etc.) under my direction during the University year 1915-16, and that he did good work in the subject throughout that time. Mr. Guha was exceptionally faithful in his endeavor to work out the problems independently, a characteristic which I have seen in his other works also. I feel sure he would exercise the same good qualities in any work in which he might engage.

Respectfully,

Berkeley, Jan. 8th 1917.

H. B. LANGILLE,
Asst. Prof. of Mechanics.

To whom it may concern :

This is to certify that I have known Mr. K. K. Guha for the last three years as a student in the College of Mechanics of the University of California. He has been one of my students in Engineering Mechanics (theoretical mechanics for engineering students) and in Aerodynamics. I have always found him a conscientious and industrious student, and his record is good. I have no hesitation in recommending him.

WM. F. MARTIN,
ASST. PROF. OF ENG. MECHANICS,
University of California.

Berkeley, April 10th, 1917.

DEPARTMENT OF IRRIGATION.

To whom it may concern :

Mr. K. K. Guha, a student in the College of Mechanics, University of California, who expects to graduate with the degree of Master of Science in May 1917, has taken two courses in Irrigation offered by me, namely, Irrigation 103, on the "Agricultural use of Water in Irrigation Practice," and Irrigation 104, on "Drainage." His work in these two courses was very satisfactory. He has registered this term in Irrigation 102. "Irrigation Engineering."

From my acquaintance with Mr. Guha, I have found him to be a good student who is earnest in his work and who can be depended upon.

Very truly yours,

Berkeley, Jan 20th, 1917.

B. A. ETCHEVERRY,
Head of the Department of Irrigation.

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24 UNIVERSITY OF CALIFORNIA

Feb. 12, 1917.

I I take pleasure in stating that I have known Mr. K. K. Guha for several years as student and assistant and value him highly in both capacities. He has talent and industry, and is scrupulously faithful in his work. I feel sure that he is well prepared to be of service in the cause of education in India, and hope that he may receive a good appointment.

(sd) M. W. Haskell, Ph. D.
Prof. of Mathe. University of Cal.

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Dec. 29, 1916.

This is to certify that Mr. K. K. Guha, during the two years just passed, and while he was in residence as a graduate student at the University of California, has been in the service of the Department of Mathematics at that institution. His duties, as a Reader in Mathematics, consisted in the reading, for the detection of errors, of sets of problems and examples assigned for solution to the various classes of undergraduate students in Mathematics. These duties were performed to the satisfaction of the department of Mathematics, He showed himself uniformly willing, cheerful and reliable. Mr. Guha has a likable personality.

(Sd.) Charles A. Noble,
Assoc. Prof. Math. Univ. of California.

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Jan. 18, 1917.

Gentlemen:

This is to certify that Mr. K. K. Guha has pursued courses in the University of California for several years passed; that he has studied calculus, differential equations and kinematics with me and has, on account of his scholastic proficiency, been serving as a reader in the Department of Mathematics.

I understand that it is his intention to undertake educational work in India and I hope that his qualifications will justify his appointment to a position in connection with the engineering educational institutions in his own country.

Very truly yours,
(Sd.) B. M. Woods,
Assist. Prof. of Theoretical Mechanics.

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Madras
22nd Dec. 1920.

(2)

From

S. P. Anjaswami Mudaliar
Retired Engineer
'Singara Vilas'
Royapettah Post
Madras.

not qualified sufficiently

To

R. G. Grieve Esq
Ag. Director of Public Instruction.

Enclosures—3.

Sir,

With reference to your advertisement in the Madras dailies for the post of Professor of Civil Engineering, I beg to state that I am a qualified Engineer of the College of Engineering, Madras, winning the prize for 'Drawing'. I passed out of the College in 1909. During the first half year of my practical training, I was attached to the P. W. Workshops, Madras, and in the second half year I was taken on the Madras Harbour works as a premium Engineer where I was given ample opportunity to specialise in the ferro-concrete work and other machinery worked by hydraulic pressure as may be seen from the testimonial given to me by the then Chief Engineer F. J. E. Spring Esq a copy of which is herewith attached for your kind perusal.

On completing my course I was holding an acting Assistant Engineer's post

P.T.O.

in the Salem District Board for about seven months. After this I secured a permanent appointment as an Assistant Engineer in the Chingleput District Board in which capacity I continued to serve for about six years. In the same District I was appointed to the post of the District Board Engineer for a little over three years on a salary of Rs 400/- rising to Rs 600/- As I was not confirmed in this appointment, I had to sever my connection with the Board in May last. Since then I have been engaged in designing and superintending masonry structures for private people in Madras.

I come of a family of school masters as is evidenced by the fact that my father, a Student of the Presidency College, Madras, about the year 1850 was appointed to the post of a school master in one of the Government schools of the ceded districts where he rose to the rank of a Deputy Inspector of schools with a total service of nearly twenty nine years. Before he could retire, he died. my eldest brother the late Professor S.P. Singaravelu Mudaliar served as an Assistant Professor of Mathematics in the Presidency College, Madras, for about five years when the present

P.T.O.

Director of Public Instruction was the Professor in the same College. For nearly ten years he was attached to the Pachaiyappa's College, Madras, as the Professor of Mathematics besides being a chief examiner in the University of Madras. Ever since I severed my connection with the executive department, I have been waiting to secure an appointment as a school master and as the present chance has come, I am now applying for it.

I am a little over thirty five years old and belong to the Tamil Weaver caste which is recognised by the Government as one of the backward classes of Southern India. It is interesting to note that [redacted] out of a very large population of weavers, I am the first to have secured the diploma in Engineering. My qualifications are given above. The place of my birth is Kurnool where my father was serving as a Deputy Inspector of schools.

Copies of testimonials are herein enclosed for favour of perusal. As regards my conduct and capacity for work, a reference may kindly be made to the following gentlemen under whom I happened to serve long.

1. Honble Mr. C.G. Todhunter Esq I.C.S. Member of Council. D.P.I.

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2. J. H. Bryant Esq I.C.S.
Collector of Nilgris

3. C.L. Cartwright Esq
Ag Principal
College of Engineering Guindy.

4. H-H G. Mitchell Esq
Chief Engineer
Madras Port Trust.

I beg to remain,
Sir,
Your most obedient servant
S.P. Ayyaswami Mudaliar
22/12/20.

P.T.O.

29 32 28

Royapettah
October 3rd, 1906.

Mr. S.P. Anjatwami was a student in Wesley College for several years and passed the F.A. Examination from Wesley College in December 1904. He has mental attainments above the average, as is evidenced by his gaining a first class in the F.A. When at school his conduct was excellent and his attendance was regular and his attention to his studies diligent. I have frequently met him since he left the college and can testify to his good character.

(SD) C. Pollard
Principal
Wesley College Madras.

The Presidency College.
8th October 1906.

S.P. Anjatwami Mudaliar has been a student of this college from the beginning of this year. His conduct during that period has been satisfactory

(SD) F. J. Allen
Ag Principal

True copy
S.P. Anjatwami Mudaliar
22/12/20. P.T.O.

Chief Engineer's Office
Port Trust, Madras.

Mr. S.P. Arjavaram Mudaliar, a passed Engineer Student of the College of Engineering, Madras, was posted here for the second half year of his practical training. During this term he was given opportunities of supervising the manufacture of ferro-Concrete piles and slabs and their sinking to form Quay walls, Concrete block making, block setting, construction of light houses, etc. He received a short training in the Marine Survey Department and for a month was attached to an inchcape and bucket dredgers and had complete opportunity of studying their work.

The Assistant Engineers and foremen under whom he has worked report him to be intelligent, hard working and punctual in his attendance and from my personal observation of his work I consider him to be a thoroughly useful man who will put his theoretical training to practical use.

(Sd) Francis. J. Xe. Spring.
16.1.11.
Chief Engineer.

(Sd) H.H.G. Mitchell
13.1.11.
Executive Engineer

True copy
S.P. Arjavaram Mudaliar
P.T.O 22/1/20.

31

Salem District Board
District Engineer's Office
Station - Madras.
Dated. 15-12-1914.

Mr. S.P. Anjatwami Mudaliar acted as L. F. Assistant Engineer, Salem, for a period of seven months in the year 1911, during which time I found him an energetic and capable officer. He left on securing a permanent appointment as Asst. Engr. under the Chingleput District Board. I wish him every success in his future career.

(Sd) G. H. Vaughan
Dy. B.D. Engineer.
Salem

True copy
S.P. Anjatwami Mudaliar
22/12/20.

RAG
22/12/20

22.12.20

From

V. Arunachalam Iyer, B.A., B.E.,

Executive Engineer,

Travancore P.W.D.,

Nagercoil.

To

The Director of Public Instruction,

Madras.

Sir,

In response to the advertisement in the Hindu calling for applications for the post of Professor of Civil Engineering in the College of Engineering, Madras, I beg to submit herewith my application for the same. I am submitting this direct to save delay and I may inform that I am submitting copy of the same through the Chief Engineer of the Travancore P.W.D., who is the Head of our Department.

Qualifications:- I am a Graduate of the Madras University with Mathmatics as Optional subject. I have undergone the course for Civil and Mechanical Engineers in the College of Engineering, Madras, and have passed the final examination as the second of the successful candidates of the year. In the Madras University Examinations, both F.E. and B.E. I was the first of the successful candidates of my set. I have passed the B.E. in both the Civil and Mechanical branches. The above statements may be verified by a reference to the University and College of Engineering calendars.

I have undergone a practical course of one year in the Madras Railway Workshops at Perambur, and I have familiarised myself with the machines and their working in the several shops therein, and I possess a good testimonial for the same.

Service:- I have served three years as the Superintendent of the S.M.R.V. Technical Institute, Nagercoil and have imparted and supervised instruction in all the Civil Engineering subjects of the Engineer Subordinate and lower grades. I have put in nearly 15 years (fifteen years) of permanent service in the Public Works Department of the Travancore State, as Assistant and Executive Engineer and for the last nine years I am working as an Executive Engineer and Division Officer. I have had occasion to work in the several parts of the State and to investigate, design and supervise various projects and works of a Civil Engineering character, e.g., investigation of roads, navigation canals, irrigation and drainage projects, construction of buildings and bridges in masonry, timber, iron and reinforced concrete, coast protective works, construction and supervision of various tank and canal irrigation works.

For the last six years, I am in charge of the Kothayar Irrigation Project, in Travancore, a storage reservoir project, with an artifical lake held up by a concrete dam and a system of very difficult channels in broken country and irrigating an area of 60,000 acres of double crop wet lands. I may say that during this period, I have had to devise, construct, and ~~construct~~ Supervise almost all kinds of works in Hydraulic Engineering and to control and economise in the distribution of water for irrigation purposes. I possess a working knowledge in gauging water, in the use of current metres, Grant-Michell meters Kennedy's Sluices, Stoney's Sluices etc.

I am 42 years old, my place of birth is in the Tanjore District of the Madras Presidency and I am now serving in Travancore. It appears to me that I happen to possess -

33

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educational, educative and professional (service) qualifications which may entitle me to the post of Professor of Civil Engineering and if so, I take the liberty to request that the post may be conferred on me. I shall indeed be very happy to get the chance to serve the alma mater of my Engineering studies and to further, to the best of my abilities, the cause of Civil Engineering Education in the Madras Presidency. Should I be so furtunate, as to be given the post, I beg to state that I may be started on a salary of Rs.1250/- per mensem with the suggested prospect of rising to Rs.1650/- per mensem.

As regards my abilities, character, and conduct, I may suggest that reference may kindly be made to F.J.Jacob Esq., Chief Engineer, Travancore State and Sir P.Rajagopalachari of the Madras Council.

I shall be happy and prepared to furnish any further particulars regarding myself, if reference be made to me.

I have the honor to be,

Sir,

Your most obedient servant,

V. Annamalai

20/12/20

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34

Karungulam
19.12.20

DIRECTOR OF PUBLIC INSTRUCTION
22 DEC 1920

34

From.
R.V. Narayana Aiyar.
Retired P.W.D. Madras
Now at Karungulam Tinnevelly

Apparently Too old
22.12.20

To.
The Director of Public Instruction

Sir.

I beg to offer myself as an applicant for the Professorship in Civil Engineering in the college of Engineering Madras, as advertised in the Hindu.

I am a graduate in Engineering of the Madras University & retired as an assistant

I would assure Sir, you that I would work wholeheartedly and with Single-ness of purpose to justify your choice if it falls on me.

I beg to remain
Sir
Your Most Obedt Servt
R. V. Narayana Anglu
19 12/20

No

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40 35

SARADA COTTAGE
CHAMARAJPET

Bangalore City 21st Dec. 1920.

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To.
The Ag. Director of Public Instruction,
Madras

Sir,

With respect to your advertisement for a Professor of civil engineering, published in the "Madras Times" of the 16th instant, I beg leave to state that I am a graduate (BSc) of the University of London in Engineering and I studied Electrical and Mechanical Engineering at the City & Guilds (Engineering) College. I have passed the Associateship (A.C.G.I) Examination of the City and Guilds Institute of London, and hold their diploma in both Mechanical and Electrical Engineerings.

I have for some time worked at the British Westinghouse of Manchester and at Messrs George Wailes & Co of London. I have besides studied Sanitary Engineering at the Royal Sanitary Institute of Great Britian.

|| He does not seem to me as with Civil Eng. Qualification || Quite so.

22.12.20

I am at ~~present~~ employed as an Assistant Professor at the local Engineering College. If you think that my qualificiations are satisfactory, I will send a formal application through the Government with testimonials from Messrs G. Wailes & Co & British Westinghouse.

I beg to remain,
Sir,
Yours truly
E. K. Ramaswami

Age. 27 Years
Brahmin.
of birth. Shimoga.
ification. BSc (Engrg) Lond.
A.C.G.I.

DIRECTOR OF PUBLIC INSTRUCTION
22 DEC 1920

SARADA COTTAGE
Chamarajpet
Bangalore City 23 rd.Dec 1920.

36

To

The Director of Public Instruction,
Madras

Sir,

In continuation of my letter dated 21 st.Decr.1920, I Beg to submit copies of two of my credentials, Prof.Dalby's letter contains a summary of the course of instruction for Civil and Mechanical Engineering Students. I have been in charge of erection of laboratories and workshops of the Engineering College ,Bangalore for the past two years. I have been teaching the students in various davanced subjects such as Power plant Engineering & Machine design including Hydraul -ic Machinery.

From the advertisement, I see you want two references; if you want general references, I beg to refer you to Mr.Just -ice C.V.Kumaraswami Sastry and Mr.C.P.Ramaswami Iyer, the Advocate-General, Madras but if you require professional reference, Prof.K.R.Sheshachar and Prof.S.raghavendra Rao will support me.

I beg

42

I beg to remain

Sir,

Your most Obedient Servant

E. K. Ramaswami
Assistant Professor
College of Engineering
Bangalore

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38

DIRECTOR OF PUBLIC INSTRUCTION
24 DEC 1920
MADRAS

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City And Guilds (Engineering) College
Exhibition Road. London S.W.
27th March 1917.

Electrical Engineering Dept.

To Whom It May Concern:

Mr. E. K. Ramaswami has been a Student of this College for four years. During the first three years he took the Diploma - Course in Electrical Engineering and obtained the Diploma in June 1916. He is now taking the Course in Mechanical Engineering and for the B.Sc Degree in Engineering. Mr. Ramaswami's behaviour has always been exemplory; he has always shown a keen interest in his work and a high standard of knowledge of the Principles of Electrical Engineering. I have no hesitation in recommending him for an Engineering position of importance and responsibility.

Sd. G. W. O. Howe, D.Sc., M.I.E.E.
Assistant Professor of Electrical
Engineering.

Imperial College of Science & Technology.

City And Guilds (Engineering) College,
Exhibition Road, London. S.W.

Ref.No.J/82.

January 21st 1919.

I have much pleasure in stating that Mr. Erode Krishnaswamy Ramaswamy took a four years' Course of Instruction at this College during the Sessions 1913-14, 1914-15 and 1916-17, and that he was awarded the Diploma of the Institute (A.C.G.I.) in Mechanical Engineering and Motive Power as well as in Electrical Engineering. Mr. Ramaswami also obtained the B. Sc Degree in Engineering in the University of London. Some particulars of the Course of Instruction will be found on the back hereof.

Sd. W. E. Dalby

Dean and Professor of Engineering

M.A., B.Sc., M.Inst.C.E., M.I.MeE.,

F. R. S.

The Diploma Course of Instruction for Students in the Civil and Mechanical Engineering Department of the City and Guilds (Engineering) College extends over a period of three years from the date of the College Entrance Examination, and the Diploma of the Institute is given to those students whose work in the Laboratory and drawing Office, as well as in the Examinations held at the end of each term, reaches a sufficiently high standard.

Certificates are given to those students who pass through the complete Diploma Course, but whose work, - though meritorious, does not quite qualify them for the Diploma.

During the first year the bulk of the time is devoted to the Study of Mathematics, Physics and Chemistry with the object of familiarising the students with the fundamental principles of the pure science to be used in their subsequent technical studies. Some time is also spent in the drawing office and workshops of the Engineering Department so that students may gain some practical knowledge of the properties of materials.

During the last two years the subjects of study are mainly of a technical character and include instruction in the Mechanics of Engineering, Strength of Materials, Valve Gears, Heat and Steam Engines, Hydraulics, Thermodynamics and the Theory of Machines. The Lectures in these subjects are supplemented by a large amount of work in drawing - office where examples in the design of Roofs, Bridges, - Girders and Machine Deatils are worked out. In addition to this students also pass through a Course of Instruction in the Electrical Engineering Department which includes practical work in the Laboratories of that Department.

During the third year each student spends a day a week in systemic practical work in the Engineering Laboratory. The Laboratory Course includes instruction in the properties of materials and the methods of testing them with - actual work on steam, Gas and Oil Engines, and other testing machinery with which the laboratory is equipped.

During this part of their course considerable time is devoted to Surveying, which includes the adjustment and use of instruments as well as practical work in the Field with levels, Theodolites and Plane Tables, and the carrying out of a number of exercises especially designed for the kind of Surveying required by a Civil Engineer in actual practice.

It should be emphasised that during the whole of the three years the student receives systemic instruction in applied Mathematics in the Department of Mathematics and Mechanics of this College, and that during this period he also receives instruction in Chemistry.

Telegrams:—"SERVICE" DELHI.

THE OLDEST EMPLOYMENT BUREAU UNDER EUROPEAN MANAGEMENT.

THE SERVICE SECURING AGENCY.

No. 12292 Delhi. 23-12-19.

Dear Sir,

Appointment of Professor of Civil Engineering in the Indian Educational Service in College of Engineering, Madras.

With reference to the above vacancy, we take the liberty of recommending to you a few qualified and experienced candidates as per enclosed list which furnishes full particulars to their age, experience, etc., etc., and is duly attended with true copies of their certificates.

We have selected these candidates for the post, out of the vast host of applicants on our Books. We may add, that hundreds of our clients have been and are holding responsible positions in almost all the Departments in India and Abroad, and this fact alone is a sufficient proof of our experience of years in selecting the right man for the right place.

We trust that the applications of our nominees will be favourably entertained and on hearing from you the names of the successful candidates, we shall see that their services are placed at your disposal at a very early date.

Respectfully thanking you, in anticipation of your patronage, which we assure you, it will be our aim to retain.

Yours faithfully,

Manager.

MEMO OF QUALIFICATIONS.

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No.	Name.	Age.	Remarks.
1.	Prem Singh Place of Birth – Bassali Dt. Rawalpindi – Punjab	27	He has just returned from England after a stay of about 8 years. During this period he underwent an Engineering course both theoretical & practical, as follows:– 2 years. Glasgow University. 2 " Caledonian Ry. Co. (Engng. Branch) 1 " British Westinghouse Manchester. 3 " Admiralty Inspection Staff. In the Admiralty Inspection Staff, he was employed as an Asst. Examiner and Inspector of Steel, & was entrusted with Inspection of Bombs, Shells, Steel, &c. He is an A.M.I.E.S. & G.I.E.E.
* 2.	H. C. Banerjee	32	He is qualified in Civ. Engng. from the Sibpur College & King's College London. He holds the following diplomas:– Mupl. Engng. King's College London. Associate of the Institute of Sanitary Engrs. Member of Institute of Mupl. & County Engineers. M. R. San. I. He is well up in Water supply, Town planning, Roads & Drainage Bldgs. & Tramways. He has worked for 2 years under Mr. Nandy Hodges London, 1 year as Asst. Engr. P.W.D. Behar & Orissa, 2 years as Acting Engr. Calcutta Improvement Trust, for 6 months as Assistant to Messrs. Wellman Saver & Head, Engineers, Kingsway London, for 1¼ years as Lieut. Asst. Engr. Indian Army & for 1 year as Asst. to Messrs. the Brentford Gas Co., Middlesex, England.

MANAGER.

Service Securing Agency, Delhi.

Note

* Certificates will be obtained & submitted afterwards.

TRUE COPY

ADMIRALTY INSPECTION OFFICE,

H. M. Govt, Inspector of Steel,

3 St. James Square, Manchester,

13th April, 1919.

To whomso ever it may concern:—

I have pleasure in personally testifying to Mr. Prem Singh's good conduct and ability during the three years he served in this Department as a Shell and Bomb Examiner. His services are being dispensed with, owing to the cessation of hostilities and consequently demobilisation of our Assistant Engineers, who where temporarily engaged for service during the War only. He has been working well and amicably with his colleagues [illegible]given every satisfaction.

(Sd.) FERDERICK J. DAVIS,

H. M. Govt. Asst. Inspr. of Steel

L. Commander, R. D., R. N. R.

——o——

CERTIFICATE OF SERVICE UNDER THE ADMIRALTY.

Inspector of Steel,

Dock-Yard Establishment,

2nd March, 1919.

Name of employee (in full)—Prem Singh.
Trade or Class—Mechanical Engineer
Hired or Established—Hired.
Period of Service in present occupation—3 years
Conduct—Very good.
Quality of service rendered—Assistant Examiner, employed in Examination of Shells and Bombs.
Cause of Discharge—Reduction of Establishment after the War.
Particulars of Service, if any additional to that stated.

(Sd.)_____

Assistant Inspector of Steel.

——o——

THE BRITISH WESTINGHOUSE ELECTRIC & M'fg. Co., Ltd.

31st March, 1916.

To whom it may concern.

This is to certify that Prem Singh Block No. 29554 worked for the above Company for the past 12 months under my supervision. He has worked on various machines such as Milling, Drilling. and Lathe, worked in connection with the War work.

I find him very reliable and straightforward and can recommend him.

(Sd.) WILLIAM BARRETT,

Night Foreman, H. Comn. Dep't

OFFICE OF KHYBER ROPEWAY.

Jamrud,
Dated 6th May, 1920.

This is to certify that B. Prem Singh has served under me for six months as a Supervisor on Khyber Ropeway. His knowledge in mechanism is splendid and possess a general knowledge in Engineering. I understand he has received his Engineering Education in England and it is my sincere hope that he would shine well in the near future. He has given me every satisfaction in the work entrusted to him and knows well the construction of Deviation station and other mechanical part of work of Ropeway. I have the pleasure to give him this on my leaving India for Home.

I wish him every success in life.

(Sd.)... .....
Captain, R. E. M. C.
Khyber Ropeway.

——o——

This is to certify that Mr. Prem Singh has for the last nine months been engaged on construction of Khyber Ropeway. He was in charge of erection of various types of Ropeway Stations. When all Stations were completed he was in charge of the training of men and look after the I. C. Engine for the running of Ropeway. In both these capacities Mr. Prem Singh services have been of great value. He is reliable and trustworthy.

Landikotal
N. W. F.
16th July 1920.

(Sd) D. E. WILLIAM,
Captain S & T.
O i/C Maintenance,
Khyber Ropeway.

——o——

To

WHOM IT MAY CONCERN.

This is to certify that Mr. Prem Singh has worked on the construction of the Khyber Ropeway since the commencement of November, 1919. Since that time he has been employed on works of a varied nature. He is fully coversant with all types of machinery Drills, Lathes, Mills &c, and has a very thoroughly knowledge of both steam and internal combustion Engines He can be relied upon in cases of emergency and is thoroughly competent to take charge of big jobs. He understands and speaks good English, which is distinctly useful and I can strongly recommend him for any Engineering job at about four hundred or four fifty rupees.

Jamrud,
8th July 1920.

(Sd.)..... .....
LIEUT, R. E.
Officer Commanding Ropeway Workshop.

——o——

ADMIRALTY INSPECTION OFFICES,
H. M. Govt. Inspector of Steel,
3 St. James Square Manchestor.
30th April, 1919.

To Whomsover It May Concern:—

I have pleasure in personally testifying to Mr. Prem Singh's good conduct and ability during three years he served in this Department as a Shell and Bomb Examiner. His services are being dispensed with, owing to the scssation of hostilities and consequent demobilization of our Assistant Engineer, who were temporarily engaged for service during the War only. It has been reported to me by his Senior Examiners, that he has worked well and amicably with his colleaguse and given every satisfaction.

(Sd.) FERDERICK J. DAVIS,
H. M. Govt. Asst. Inspr. of Steel,
L. Commander R. D. R. N. R.

Capital Printing Works, Delhi.

[Pl. / 42]
1,200—20-1-11.

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NOTES.

C No. 2801A

Recruitment in Europe of officers for Professorships in the Eng. College

Prevoont Govt

963 d / 23.8.20
893 d / 7.8.20
600 d / 17.5.20
243 d / 24.2.20
229 d / 21.2.20
490 d / 9.2.20
1464 d / 25.11.19
796 d / 24.6.19
643 d / 19.5.19
390 d / 27.3.19
Desp. 1 d / 27.3.19
35 d / 14.2.19

627 d / 16.5.18
742 d / 6.7.16
487 d / 5.5.16
1052 d / 24.9.15
770 d / 14.7.15
1072 d / 21.11.13
607 d / 30.6.13

45 48 46

Home (Edn.) Deptt.

CNo. 2801 A. From the D.P.I., R.C. 6782/20 dt 22-9-20.

Subject. Recruitment of officers for certain posts in the College of Engineering.

The posts in the College of Engineering, Madras, which are included in the Indian Edl. Service and the incumbents therein are noted below:—

Post.	Name of incumbent	Remarks
1. Principal	Mr. W. H. James	Has been granted furlough for 15 months from July 1920
2. Professor of Mechanical engineering	Mr. C. L. Cartwright.	acts as Principal vice Mr. James.
3. Professor of civil engineering.	Vacant.	Mr. H. W. Barker, the permanent incumbent of the post resigned his apptt. ~~from~~ 4-10-20.
4. Professor of Electrical engineering.	Mr. H. B. Matthews.	
5. Additional Profr. of civil engineering	Mr. G. Nagaratnam ayyar	Mr. Nagaratnam has been appointed temporarily for six months by this Govt. The Govt. of India have asked for the sanction of the Sec. of State to his permanent appointment.
6. Professor of Technical Chemistry	Vacant	The Govt. of India have asked the Secy. of State to recruit an officer in England for this post.

46

The D.P.I's suggestions for the filling of the vacancies in the college are noted on in the following paragraphs

2. Professor of Mechanical engineering

Mr. C.L. Cartwright, the permanent incumbent of this post, went on leave in July 1919. The P.W.D was not able to spare the services of any officer ~~to act~~ to act in the place of Mr. Cartwright. As a temporary measure, M.R.Ry S. Subrahmanya ayya, ~~Instructor~~ Instructor, School of Engineering, Vizagapatam, was deputed to the College to do a portion of the work of the Professor of mechanical engineering. The Secretary of State was also requested to select ~~and~~ send out an officer to fill the temporary vacancy. In his telegram ~~last~~ dated 3rd April 1920, he stated that even for permanent appointment with free quarters at Sibpur it had not been possible to secure a suitable candidate and that he took strong objection to attempt being made to recruit in England on a temporary basis. Mr. Cartwright returned from leave in July last & was appointed to act as Principal in place of Mr. James who then went on leave. The D.P.I (recently) reported that ~~it was not possible to~~ it was not possible to spare

P.O. No. 35 / 19.2.19 (I)

P.O. 1023 / 23.8.19 (A)

P.O. No. 224 / 17.2.20 (G)

p. 30 of 80. P.O. 697 / 15.6.20 (R)

P.O. 932 / 16.8.20 (W)

47

Spare the services of an Instructor from the School at Vizag; ~~Services were required at Vizagapatam~~, and as the P.W.D were unable to lend any officer of that Deptt to act as Professor of mechanical engineering, he proposed that the Professorship might be held in abeyance & that, against it, a post of Instructor ~~to~~ be held by an officer of the rank of Sub-engineer, P.W.D, might be created. This was sanctioned in Go. No 932, dated 16.8.20. The Director now suggests that, unless a man with suitable qualifications can be spared from the P.W.D, the vacancy should be advertised. The P.W.D may again be asked whether that Deptt will be able to spare an officer temporarily to act as Professor. The vacancy will last till Oct. 1921.

(W)

p. 2 of cf.

3. Professor of civil engineering

Mr H.W. Barker, who held this post, went on leave in continuation of the summer vacation this year & has since resigned his appointment. The post is, therefore, permanently vacant. The P.W.D has already stated that it could not spare the services of any officer of that Deptt even temporarily. The D.P.I reports that the (acting) Principal considers that as the post of Additional Professor of civil engineering is held by an Indian (Mr G. Nagaratnam ayyar), the post of Professor in that subject should be held by a European

Go. 49 / 9.2.20 (T)

notes to Go. ibid (T)

p. 2 of cf.

and that a suitable officer should be recruited from England. The argument that as one of the two professorships is held by an Indian, the other should be held by a European, ~~will~~ is not likely to be accepted by the Govt. of India + the Secy. of State as sufficient reason for the recruitment of an officer in England. Recently in asking the Govt. of India to recruit a candidate in England for the post of Professor of Physics, Presidency College, it was pointed out that of the ten posts of Professors in the I.E.S in the College, five were held by Indians and that the remaining five should be held by Europeans. The Govt. of India thereupon stated that "it is not necessary that the "proportion of Europeans to Indians should "be maintained in respect of each College "or as a matter of that for each particular branch of the service."

Letter No. 504 / 27.4.20 (P) (Removed & put up with another case) in circ.

para 3 of do., p. 1 of Go. 740 / 24.6.20 (U) (Removed & put up in another file)

4. In their circular letter No. 371, dated 23rd March 1920, the Govt. of India have laid down that the ultimate proportion fixed upon in each province for the filling of posts in I.E.S by Indians + Europeans should be maintained in the annual recruitment. The Govt. ~~of India~~ have asked for

para 13, p. 19 of Go. 600 / 17.5.20 (X)

(Separate file) 19

the views of the local Govts as to the proportion to be fixed for each province. Assuming that 50 per cent of the posts should be filled by Indians and that this proportion should be maintained in the annual recruitment, the following Statement shows the posts for which the Secretary of State has been asked to recruit in England & the posts for which recruitment has been made in India in the current year:—

Posts for which the Sec: of State has been asked to recruit.	Posts for which recruitment has been made in India.
(1) ~~Professor of English, Presidy Coll.~~	(1) Addl. Prof: of Chemistry, Presidy Coll.
(2) Addl. " " " "	(2) Prof: of Economics.
(1) Prof: of Physics, " "	(3) Addl. Prof: of Civil Engineering
(½) Vice-Principal, Teachers Coll. Saidapet.	
(½) Prof: of Tech. Chemistry, Coll. of Engl.	

In addition to the above there is also a permanent vacancy in the post of Inspector. The Govt of India have been requested to confirm Mr H.S. Saunders, a European, in this vacancy. It is therefore doubtful whether recruitment in England for another post can now be urged having regard to the 50 per cent detail

Letter 544 (K)
5.5.20.

The post of Dy Director of Public Instruction is vacant and will presumably be filled by a European

5

5. In this connection it may be also stated that the absence of facilities for practical training in England in civil engineering has been brought to the notice of the Govt. of India. Vide para 11 of their letter, dated 10th January 1919, the Govt. of India stated that Indian students educated in England in civil engineering experienced great difficulty in obtaining practical training in that country owing to the fact "that but little new "construction is undertaken, the bulk "of the work consisting of maintenance "& repairs." Mr. James, Principal, Coll. of Engineering, Madras, also stated as follows last year:—

Page 3 of Jo. 1464 25.11.19 (Y)

para 11, p. 8 of Jo. ibid

"I think it would be of advantage "that qualified students who have taken "theoretical course in England should be "granted facilities for practical training "on works in this country under regulations "similar to those of Indian engineering Colleges. "This applies in particular to civil engineering "as the conditions in this branch are so "different to those that obtain in Europe. "That in any case a good deal of the "professional knowledge necessary "to a civil engineer can only be gained from

"from experience in this country. Practice
"in mechanical & electrical engineering
"is more advanced in England & the position
"in these branches is somewhat different"

It would thus appear that great difficulty is likely to be experienced in the recruitment of a suitable candidate in England with practical experience for the post of Professor of Civil engineering even if the Govt of India & the Secretary of State agree to recruitment from that country. Before addressing the Govt of India, it seems necessary to ensure that a suitable candidate is not available in India for the post. Perhaps the D.P.I may be asked to advertise this vacancy also.

6. Professor of Technical Chemistry

p. 2 of ef. The D.P.I requests that an officer may be recruited for in England for this post. The Govt of India have already been asked to take steps in this matter & that Govt have just intimated that the India Office was addressed on the subject on the 16th September 1920.

(P.S. undersigned)

7. The file may be sent to P. W. I with reference to para 2 (page 3) above.

13/10/20

7.10.20.

9/10/20

52 55 8 59

DIRECTOR OF PUBLIC INSTRUCTION
17 OCT 1920
MADRAS

apart from the question of the mode of recruitment, the real difficulty is to get proper men from England ~~only~~ now. And the W.P. I has probably to suggest what to do under existing circumstances

MCJ 15/10/20

Edn 2801.A-1
15.10.20

W.P. I [illegible]

U.O.Reply No. 289 dt 19.10.20

I doubt if anything is to be gained by advertising. I understand that Mr.Cartwright saw at home a Captain Stradling who told him that he would like to come to India. Mr.Cartwright considers that he would be very suitable at this particular stage in the development of the college. He is a well-qualified and has a great deal of practical experience. I understand that Mr.Cartwright wrote to him sometime ago privately. It was suggested that Captain Stradling should approach the India Office direct. I do not know whether this is being done. Doubtless this could be ascertained by a cable. Failing him I think we should appoint Mr.Chakko.

The application for his services should go through the Govt of India

REGISTRAR [illegible] DEPARTMENT
20 OCT 1920
GOVT OF MADRAS

RAA
19.10.20.

Home (Estt) Dept.

It is for orders whether a candidate should be recruited from England for the post of Professor of Civil Engineering. If so, the Govt of India should be asked to address the Secretary of State. It is doubtful whether that Govt will agree to the proposal in view of the ruling that 50 per cent of the vacancies should (every year) be filled by recruitment in India. As will be seen from ~~page 5~~ supra the vacancy in the post of Professor of Civil Engineering should, according to this proportion, be filled by Indians.

SK
23.10.20

2 The file may be sent to Govt with reference to the last sentence of para. 2 on page 3 ante.

MK
23/10/20

A
25.10.20

I would make an attempt to get a recruit from England. Please cable.

2. Re the proportion of Indians, it will have to be made good in another direction

MM
25/10/20

54 5 55

A Draft telegram to the Govt. of India is submitted.

2801 A

Sk 25.10.20.

AK 25/10/20

CR 25/10/20

Issue 26/10/20

[Telegram to the Govt. of India 26.10.20]

C.No. 3265 A. From the Govt. of India, P.W.D., No. 1517, dated 10.11.20.

The Govt. of India enquire whether this Govt. would agree to the appointment of Mr. K.C. Chakko as Profr. of Civil Engineering if he is considered suitable by the Secretary of State. That Govt. suggest that, failing Mr. Chakko, an officer should be got from P.W.D. or the vacancy should be advertised. The P.W.D. have already stated that no officer of that Deptt. could be spared. The D.P.I. doubts if anything is to be gained by advertisement. As regards Mr. Chakko, Mr. Cartwright, the acting Principal of the College, does not consider him to be [quite] suitable. The D.P.I. has, however, stated that, failing any other suitable candidate, Mr. Chakko might be appointed. As the Govt.

p. 5 of c.f.

notes to go. 49 R (T) 9.2.20

p. 8 supra

This was in February last

p. 2 of c.f.

(This word should not p. 8 supra have interpolated)

of India are not prepared to address the India Office for the recruitment of a European officer it is for orders whether Mr. Chakko's appointment may be agreed to. The D.P.I may perhaps see the papers us. & advise. It may be noted here that the Secretary of State has stated in another connection that the proportion of Indians in the I.E.S in this Presidency is much less than 50 per cent. and that vacancies in that service should, as far as possible, be filled by ~~[illegible]~~ Indians.

(Sik being subd. separately)

(Out of a total of 46 posts, 19 are held by Indians)

SK 12.11.20

NK 12/11/20

CR 12-11-20

MW 13/11/20

Home (Edn) No. 3265-1 13.11.20

D.P.I.'s U.O.No. of 20
dated Nov 1920.

14 NOV 1920

D.P.I. No. 319 13.11.20

It is not a question of the proportion of Indians at all. As the Secretary points out it can be made good in another direction. My expert advisers have given definite reasons for recruiting an officer ~~for~~ who has special practical experience. Government have spent a very large sum on

HD. 17
15.11.20.

59

buildings equipment etc & it seems a pity not to make every effort to get a good & suitable staff.

If Mr Chakko is appointed, his position with reference to Mr Nagaratnam (on Rs 800) would have to be considered.

NAG
13/11/20.

HD

Submitted for orders

14.11.20

I agree with D.P.I. But the question at present is are we to have an officer of Mr. Chakko's qualifications or none at all? There is no promise of a better officer being available in the near future. His placing may be considered after a decision regarding his appointment has been arrived at

15/11/20

H.M.

No 3156, Flag B.

No 3310A
15.11.20

Please ask P.W.D., if the position has changed since February last, & they can now recommend any P.W.D. officer for the post of Professor. Civil Engineering

(1) 2. Ask D.P.I. to draft a suitable advertisement & to suggest in what papers it should be inserted. I am not at all hopeful of any results, but we are forced into it.

(2) 3. If P.W.D. answer in the negative, we must telegraph that Chakla is pronounced difficult of access & again press for reference to the Secy. of State. We might in a D.O. write Capt. Stribling & lay stress on the folly of employing inefficient staff & the expensive equipment of the new College.

Ld
16.11.20

SECY. TO GOVERNMENT OF INDIA
17-NOV-1920
HOME DEPARTMENT (PUBLIC)

A Un. note to P.W.D & a draft D.O. to the D.P.I are submitted.

SK
18.11.20.

18.11.20
S

19/11/20

NK
19/11/20

Home (Education) Dept.

D.O. No. ~~666~~ 3265-2 & 19.11.20.

Dear Mr Grieve,

Please refer to the correspondence ending with your u.o. note No. 319, dated 13th instant, regarding the recruitment of an officer for the vacant post of Professor of Civil Engineering, College of Engineering, Madras. As the Govt. of India desire that the post should be advertised, I am to request you to prepare and submit a suitable advertisement with suggestions as to the papers in which it should be inserted.

Yours sincerely,

DESPATCHED
19 NOV. 1920

The Hon'ble Mr. R.G. Grieve,
Ag. D.P.I.

62 C.N. 3436 A
25-11-20

Office of the Director of Public Instruction,
The Old College, Nungambakkam, Madras,

D.O.No. 5 23rd November 1920.

SECRETARY TO GOVERNMENT OF MADRAS
25-NOV-1920
HOME DEPARTMENT

24/11/20

Dear Mr.Ramachandra Rao,

Your D.O.No.3265 A-2 dated 19th November 1920.

I submit herewith a form of advertisement. It is suggested that it may be inserted in the following papers:-

SECRETARY TO GOVT. OF MADRAS
25-NOV-1920
HOME DEPARTMENT

(1) The Pioneer
(2) The Times of India
(3) The Statesman
(4) Madras Mail
(5) Madras Times
(6) Hindu
(7) Justice
(8) New India
(9) Jaridah-i-Rozgar.

Mr.Cartwright in a letter to me writes as follows:- 'I wish to emphasise the fact that the man appointed will, in addition to his ordinary duties, be required to design and equip our new Hydraulic Laboratory and it is very advisable to obtain the services of some one who has had special facilities for obtaining first hand knowledge of the most up-to-date practice in this Class of work. Capt.Stradling is at present working on the Staff of Professor Lea of Birmingham University, who is a well known expert of Hydraulic Engineering and has thus had special opportunities of acquiring knowledge of this branch of Engineering.

' I strongly recommend therefore that the application of Capt. Stardling should receive very favourable consideration and that the India Office be asked to get in touch with him at the earliest possible date, with a view to his appointment on a salary which he is able to accept.'

I understand that Capt.Stardling is willing to come out provided the terms offered are satisfactory, that is to say, it might be necessary to offer him a rather high initial salary.

Yours sincerely,

R.A. Grieve.

To Mdly. Dewan Bahadur R. Ramachandra Rao Avl

60 63 76 61

Applications are invited for a post of Professor of Civil Engineering in the Indian Educational Service in the College of Engineering, Madras. Candidates should state their age, caste, qualifications and ~~the~~ place of birth.

(2) The following special qualifications will be required:-

(a) A sound theoretical training of University standard, with practical training and experience of constructional work (Civil or Military) extending over a period of at least five years.

(b) Previous teaching experience in Engineering Laboratories fitted with modern apparatus, as the successful candidate will be required to design and equip a new Hydraulic Laboratory.

(3) Candidates with European qualifications will be preferred.

(4) Copies of testimonials (which will not be returned) should be submitted along with the application. Two personal references should be given.

(5) Applications should reach the Director of Public Instruction, Madras, by the 20th December 1920.

61 ~~64~~ ~~17~~ 62

Home (Edn) Dept

For orders whether the reply from the P.W.D may be awaited before the advertisement on the previous page is published. Rendon 5 Dec

28.11.20 29.11.20 29/11/20

~~In the current~~

"The reply of P.W.D should not be awaited. Advertise at once".

L. D. 5.12.20

Slip (V) The Govt of India have since suggested that all vacancies in the I.E.S might be advertised and have also forwarded a sample form of the ~~heading of the~~ advertisement for adoption. It is for orders whether the portion marked 'K' in the sample form ~~heading of adve~~ may be inserted after the first sentence in the draft advertisement on page 16 sup

(V) 2. The draft advertisement may be returned to the Director for publication. Last year, when it was decided to advertise for applications for the posts of temporary Inspectors

62

the necessary advertisement was published by the D.P.I himself. A draft D.O. is submitted for approval.

p. 6 of c.f.

3. The Govt. of India have since sent also a copy of the papers relating to Mr. Stradling's application for appointment as Professor of Civil engineering in the College of Engineering. ~~After the~~ If no suitable candidate is forthcoming as a result of the advertisement, the Govt. of India may be informed of the fact & asked to suggest to the Secretary of State the appointment of Capt. Stradling.

SK
6.12.20

MS
Thurs

A
7.12.20
S

add the sentence marked K in flag V & also " Full particulars of the revised scale of salaries and further details as to the ~~individual~~ appointments may be obtained from the Director of Public Instruction"

Then proceed as in DP I's draft

Issue D.O.

8/12/20

63

19 66

64

Home (Edn) Deptt.

3265-4 8/8.12.20

Do.

Dear Mr Sugiu,

With reference to your do., dated 23rd November 1920, ~~I am~~ forwarding a form of advertisement in respect of the vacancy in the ~~post of~~ Professorship of Civil engineering, College of Engineering, Madras, I am to inform you that the draft advertisement ~~has been approved by Govt with the addition~~ as slightly amended as shown in the copy enclosed ~~and~~ meets with the approval of Govt. It may now be published in the papers mentioned ~~by~~ in your do.

Yours sincerely,

Page 15 of N.F.

8/12

6.12.20

7.12.20

8/12/20

DESPATCHED
8 DEC 1920

To Rai 8/12

The Hon'ble
Mr R.G. Grieve.

Enclosure

64 Enclosure 67/20 65

Applications are invited for a post of Professor of Civil Engineering in the Indian Educational Service in the college of Engineering, Madras. Pay will normally be according to the revised scale of salaries which starts at or below the age of 25 with Rs400 a month rising to Rs1250 a month after about 20 years' service. The initial pay of candidates over 25 will be fixed according to their age and qualifications. There are also selection grades rising to Rs1500 and Rs1750 a month. Selected candidates of non-Indian domicile will receive in addition to pay an overseas pay ranging from Rs150 to Rs250 a month. Full particulars of the revised scale of salaries and further details as to the appointment may be obtained from the Director of Public Instruction.

(2) Candidates should state their age, caste, qualifications and place of birth.

(3) The following spedial qualifications will be required:-

(a) A sound theoretical training of University standard, with practical training and experience of constructional work (Civil or Military) extending over a period of at least five years.

(b) Previous teaching experience in Engineering Laboratories fitted with modern apparatus, as the successful candidate will be required to design and equip a new Hydraulic Laboratory.

(4) Candidates with European qualifications will be preferred.

(5) Copies of testimonials (which will not be returned) should be submitted along with the application. Two personal references should be given.

(6) Applications should reach the Director of Public Instruction, Madras, by the 20th December 1920.

D.O. No. 363 of 20 E(A) 3897-A 21 The Old COLLEGE, 66

Station, Nungambaukkam

Date, 28th December 20

30/12/20

65 68 66

Dear Mr. Ramachandra Rau,

Please see my D.O. No. 591 of 20 dated 23rd November 1920.

7 (placed below) (A)

I have been through, with the Principal of the Engineering College, all the applications received in reply to our advertisement. None of the applicants are suitable. They are either overage, have inadequate qualifications, have studied the wrong branch of Engineering, have insufficient practical experience or are unsuitable in more than one respect. I am enclosing the applications for the perusal of Government.

Not sent

I recommend that a cable may be sent to the Secretary of State informing him that the Public Works Department can spare no one, that there is no one suitable on the Government of India list and that advertisement has been tried in vain. The Secretary of State may be asked to get in touch with Captain Stradling as soon as possible.

Since received
4/1/21

Civil

67 69 Home (Edn) Dept.

Subject - Recruitment of an officer for the post of Professor of civil engineering, College of Engg.

Fr. No 49 R 7.2.20 (T)

In February last, when Mr. H.W. Barker, Professor of Civil Engineering College of Engineering, Madras, applied for three months' leave in continuation of the summer vacation of the college, the P.W.D were requested to state whether the services of an officer of that Dept. could be spared to take the place of Mr. Barker in the College. That Dept. replied in the negative. Mr. Barker has (since) resigned his appointment in the College. In connection with (the question by) the recruitment of a candidate for the vacant Professorship, the Govt. of India have suggested that in view of the great dearth of qualified candidates in England ~~the~~ a suitable officer of the P.W.D may be appointed to the post. The P.W.D may, it is submitted, be

~~24~~ 69

requested to ~~report~~ state whether ~~the position has changed~~ there has been ~~an improvement~~ change in the position since February last and whether they can now recommend ~~any~~ a suitable officer of that Deptt for the post of Professor, Civil Engineering.

SK
18.11.20

18.11.20

19/11/20

PWD pos

3265-3
19.11.20

SECRETARY TO GOVERNMENT
10 NOV 1920
PUBLIC WORKS DEPARTMENT

P.W.D.

C No 3704 E
20-11-20

D.S.

Owing to the absence of a large number of officers on leave and on deputation, ~~the~~ considerable difficulty is being experienced in arranging for the relief of men granted leave. There are at present as many as 4 officers of the new Provincial service (Asst Engrs) holding charge of divisions for want of sufficient number of senior officers. It will thus be seen that the Deptt is itself suffering from shortage of officers. No officer can, it seems, therefore be spared for the College of Engineering. Home (Education) may be informed accordingly.

AE
17/11

68

~~25~~ 70

2. It is however mentioned in this connection that an officer of the new Provl Engr service (M.R.Ry S. Siva Rao, Asst Engr) has been retained in the College to do the duties of Instructor in Civil Engineering ~~during~~ till such time as a Professor of Civil Engineering is obtained ~~from~~ by the Educational Deptt.

With this information, the case may be returned to Home (Edn) no.

Pgs. C No. 67 A

REGISTRAR HOME DEPARTMENT
-6. JAN. 1921
GOVT. OF MADRAS

24.12.20

4/1/21

P.W.D. No 3704 E-1
5-1-21

Home (Edn)

UNDER SECRETARY TO GOVT. OF MADRAS
-6. JAN. 1921
HOME DEPARTMENT

Law (Edn) Dept

The seven applications received in response to the advertisement issued by the D.P.I. are placed below. The D.P.I does not consider any of the applicants suitable for the Civil Engineering Professorship in the College of Engineering and suggests that the Secretary of State may be asked to secure the services of Captain Stradling.

(A)

p 21 ante

A.D. 17
8.1.21

72 ~~26~~ 28 B

1. The Public Works dept. have since replied to the reference made to them on p. 13 ante and state that they can not spare the services of any of their officers for the Civil Engineering Professorship.

2. Subd. for orders whether the G. of I. may be telegraphed to to secure the services of Captain Stradling.

A draft telegram is subd.

7.1.21 For orders
8/1/21

Ans.
6/1/21

69 73 ~~72~~ 71

I have had to study the records with more than ordinary care.

On 15-10-1920 the Home Secretary enquired as follows:- "Apart from the question of the mode of recruitment, the real difficulty is to get proper men from England now, and the Director of Public Instruction has probably to suggest what to do under the existing circumstances.

On 19-10-1920, the Director of Public Instruction recorded the following reply:-

"I doubt if anything is to be gained "by advertising. I understand that Mr. Cartwright "saw at home a Captain Stradling who told him that "he would like to come to India. Mr. Cartwright "considers that he would be very suitable at this "particular stage in the development of the College. He is well-qualified and has a great deal "of practical experience. I understand that Mr. "Cartwright wrote to him sometime ago privately. "It was suggested that Captain Stradling should "approach the India Office direct. I do not know "whether this is being done. Doubtless this could "be ascertained by a cable. Failing him, I think "we should appoint Mr. Chakko."

On 25-10-1920, when his office suggested that, according to the rule that 50% of the vacancies should every year be filled up by recreuitment in India, the post of Professor of Engineering now vacant should be filled up by an -- Indian, the Secretary's reply was "Regarding the "proportion of Indians, it will have to be made "good in another direction." When the matter again went up before the Director of Public Ins-
-struction

on 13/11/1920, the Director of Public Instruction observed as follows:-"It is not a question "of the proportion of Indians at all. As the "Secretary points out, it can be made good in another direction. My expert advisors have given "definite reasons for recruiting an officer who "has special practical experience. Government "have spent a very large sum on buildings, equip- "ment, etc., and it seems a pity not to make ever "effort to get a good and suitable staff."

In his letter quoted above and dated 19-10-1920, the Director of Public Instruction has suggested the name of one Captain Stradling. The recommendation in his favour is that of Mr. Cartwright, the acting Principal of the Civil Engineering College who considers that Captain Stradling would be very suitable at -- this particular stage in the development of the College, being in his opinion a well-qualified person with a great deal of practical experience. There is no application from Captain Stradling on record. I have been, however, shown a letter written to Mr. Cartwright on 21st December 1920 (thanks to the courtesy of Mr. Cartwright who has handed the letter to the Director of Public Instruction to be shown to me) where the Captain says "the post will not fall to my lot as I -- should like it. The financial question will prevent it."

In this state of things I am unable to make up my mind to recommend the appointment of Captain Stradling for the ~~xxxx~~ vacant post in the absence of a definite understanding from the financial what the starting salsry should be of Captain Stradling in case he is appointed.

70

He says in his letter that he will be 30 in May 1921. In case I have myself to fix the initial salary, I would fix it at Rs.600 plus 150 overseas allowance. I may add that my present difficulty in choosing Captain Stradling for the vacant post lies in the absence on record of any application from Captain Stradling stating his qualifications. Beyond what Mr. Cartwright says regarding Captain Stradling, there is nothing on record to show his practical qualifications.

As Captain Stradling may not be available because of the above reasons and -- having regard to the views of the Director of Public Instruction that in case we are not successful in getting Captain Stradling appointed, the next choice might fall upon Mr.Chakko (Vide U.O.Reply No.289 dated 19-10-1920 of the Director of Public Instruction), I would give effect to that recommendation of the Director of Public Instruction with a modification that Mr.Chakko be appointed probationer for a year. This I do because, the Director thinks the work would suffer in case there is nobody appointed.

p. 8 ante.

Since writing the above I have received the Director's letter of 14-1-21 - which states what Captn Stradling's qualifications are. I would leave it to the Secy of State to judge if Captn Stradling is suitable. The Secy of State may also be requested to fix the initial salary -

Al 24/1

Pages 19-20 of CF

SECRETARY TO GOVERNMENT OF INDIA HOME DEPARTMENT 24-JAN-1921



As personally instructed a draft letter to the Govt. of India is submitted.

27.1.21

27/1/21

H032
28/1/21

71

76

~~30~~

74

Returned 29.1.21.

I believe that the draft put up expresses M1's intentions

[illegible]
28/1/21

M1. [illegible] 28/1

HE

I must own that a perusal of this draft conveys to my mind the idea that my hon: coll: Mr. Subbarayulu wld: as readily take Mr. Chakko as Capt: Stradling. Mr. Cartwright & the D.P.I are both very anxious to get Capt: Stradling, considering him to be a man of much higher practical experience, & one who wld: prove more useful at the start of the organization of this college.

But para 4 of the draft really says to the S of S that we don't think Capt: S. will come for the pay & in that case we will take Mr. Chakko whom the S of S. has already recommended.

If we really want Capt: S, & agree with the views of the Principal & D.P.I. I wld: suggest a more forceful setting out of the necessity for securing him. But if it is my hon: coll's intention by the draft to say in effect it really doesn't matter whe:, I will abide by his judgement & let the draft go

29/1/21

W. 29.1.21

M1

Submitted
[illegible] 29/1/21

~~34~~ ~~77~~ 75

M1 - Delete para 4 of the draft.



Al 30/1

31-JAN-1921

M1 has discussed this file with HE & HE is agreeable to the above course. The draft does not answer Indian's query about Mr. Chakko but M1 does not want the query to be answered

[signature] 31/1/21

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Home (Education) Department.

LETTER:- No. 157, dated 1-2-1921.

DESPATCHED 1 FEB. 1921



To

The Secretary to the Government of India,
Department of Education.

Sir,

I am directed to request reference to the correspondence ending with your telegram No. 1517, dated the 10th November 1920 regarding the filling up of the vacant post of Professor of Civil Engineering, College of Engineering, Madras and to state in reply that the local P.W.D. are unable to spare the services of any of their officers. As suggested in your telegram, advertisements were inserted in the principal newspapers inviting applications for the post, but none of the applicants are considered suitable.

p. 5, c. f.

2. Captain Stradling, mentioned in the papers forwarded with your endorsement No. 1424, dated the 25th November 1920, has, in a private letter written by him to the Principal of the College of Engineering, furnished the following particulars as regards his age and qualifications:

pp 6-8, c. f.

Age.....30 in May 1921.

Experience.....1. Faculty of Engineering, Bristol 1909-12

2. Works-structural work in steel & reinforced concrete; water supply; sewage disposal and sewerage.

These branches in design and as Resident Engineer.

Military.....Commissioned Officer, Royal Engineers 4½ years. Military Cross and twice mentioned in despatches.

Lecturing.....Civil Engineering Department B'hons.

Special subjects Taken.....(1)Strength of materials
(2)Theory of structures & reinforced concrete
(3)Hydraulics and Sanitary Engineering.

Diplomas .....M.E., B.Sc.,(Eng)A.M.I.C.E.,A.M.,A.M.,Sec.C.E.

As already mentioned in my telegram No.2801A-2, dated the 26th October 1920, the College of Engineering is being fitted with new laboratories at heavy outlay and it is essential that an officer possessing laboratory experience and able to design and equip the new hydraulic laboratory that is being constructed should be appointed as Professor of Civil Engineering. Captain Stradling is now in England and I am to suggest that the Secretary of State may be moved to consider his qualifications for the post of Professor of Civil Engineering.

3. Captain Stradling is now 29 years of age and, under the revised scales of pay sanctioned for officers of the I.E.S. he will, if appointed, be eligible for a pay of Rs.600 and an overseas pay of Rs.150 per mensem. It is understood that Captain Stradling stated that he would be unable to accept the post, unless granted a higher initial rate of pay than that admissible under the rules. If Captain Stradling is eventually selected the Secretary of State may fix such initial salary as he may deem appropriate.

4. If the Secretary of State considers that Captain Stradling's qualifications are inadequate or that he demands an initial salary that cannot be accepted, I am to state that this Government have no objection to the selection of Mr.K.C.Chakko, mentioned in your telegram, to fill the vacancy.

4. As the hot weather will commence shortly, I am to request that the Government of India will be pleased to obtain by telegraph the orders of the Secretary of State and communicate them to this Government at an early date.

N.K.
27-1-21.

C.R.
27-1-21.

HD/21/21

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Law (Edn) Depn

Ctro 99A. From the DPI No 102 of 7-1-21

Ctro 185A — do — No 102/21 of 14-1-21

[Applications of Mr Kirpal Singh and Captain Stradling for the Professorship of Civil Engineering, College of Engineering]

The main file regarding the filling of the vacant post of Professor of Civil Engineering, College of Engineering, Madras, is in circulation. Submitted that this file may also be submitted to M, in continuation. Europeans in England should apply to the Sec of State here

MS 19/1/21

19.1.21

M 1

20/1/21

K. C. Chakko B.A. L. Sc.,

74 82

P.S. 4—2,000—12-1-20.

29

PRIVATE SECRETARY'S OFFICE, MADRAS.

Edn. Cro. 933A 2-3-21

Memo. No. 270-P.

Transferred to the Secretary to Government, Law (Education) Department, for favour of disposal.

ENCLOSURES:

12

(By order of His Excellency the Governor.)

Madras,

Private Secretary.

The 1-3-1921.

HD 21/121

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88

Indian Students Hostel,
Keppel st
London W.C. 1
9th February 1921.

To The Private Secretary to
H.E. the Governor, Madras.

Dear Sir,

I am a qualified engineer and it is my desire to serve under the Government in the Indian Educational Service. I took my B.Sc. (Honours) degree in Engineering of the London University in 1916 and then worked for a year in the firm of Messrs Henry Adams & Son, Consulting Engineers of London. Since then I have been assisting my Professor Engineering Research at University College. - I took my degree in 1919 and I intend to prepare & submit a for the degree of Doctor of Science in Engineering of the University during this session. - I hope to return in the Autumn of this year.

In teaching I am prepared to vil Engineering subject, my special Materials, Design of Machines a also Surveying. I could also up organisation of Engineering

I beg to submit that you will be able to board and a suitable

K. C. Chakko B.A. M. Sc.,
Mallappally, Tiruvalla, Travancore.

Present Address: Research Laboratory,
Engineering Department,
University College,
London, W. C. 1.

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High School Education

Mar Gregorius Memorial High School, Tiruvalla, Travancore 1903-1909.

Head Master:- E.Vedastri Pillai Es., B.A., L.T.
Class prizes won every year.

University Education

Madras Christian College, Madras, 1909-1913.

Principal:- Rev. Dr William Skinner, M.A. D.D. etc.
Degree:- B.A. in Mathematics, 1st Class.
Prizes:- Maths (Senior B.A.); Matthai Prize for Scripture (Inter Arts)

University College. London 1913-1916

Provost:- Sir T. Gregory Foster.
Prof.of Engineering:- Prof E.G. Coker, D.Sc. F.R.S. etc

Andrews First Year Scolarship.
First Class Certificates in all subjects taken.
Majority of Available Class prizes.
Chadwick Gold Medal and Prize in Municipal Engineering.
A.P. Head Memorial Medal & Prize in Mechdnical Engineering.
University College Diploma in Civil and Municipal Engineering with distinction.
B.Sc.(London) Degree. 1st Class Honours.(Civil & Mechanical Engineering)
M.Sc.(Engineering) 1919, London University.

Employment

Messrs Henry Adams & Son Consulting Civil Engineers,
Sept 1916-Sept 1917. 60, Queen Victoria St. E.C.
Assistant under Agreement - without salary.
Work:- Designing sewerage tanks, roofs, silos, etc

Vacation Work

Messrs Alex.Findlay & Co. Motherwell (2months 1914) Bridge Building works.
The Glasgow Iron & Steel Co, Wishaw (1915 1 month) Repair Sh
Manchester Corporation Water Supply Scheme 1918. Surveying for Hawes Water Scheme - 4 weeks, Assistant to Mr Ormsby

University College, London, from Sept. 1917.

Research Assistant in Strength of Materials to Prof.E.G with Grant from the Government Department of Scientific Industrial Research.

Amount of Grant:- 1917-1918 £130
1918-1919 £200
1919-1920 £250
1920-1921 £250 plus £80 from the C for part-time teach

No. 625 I.B.
Government of India.
Foreign and Political Department
Delhi, the 18th. February 1919.

NOTIFICATION

In exercise of the power conferred by section 96-A of the Govenment of India Act, 1915 (5&6 Geo.5, ch. 61), the Governor General in Council, with the approval of the Secretary of State in Council, is pleased to declare that Mr.Kayalathu Chakko Chakko, son of Mr. Kayalathu Chakko Chakko, of Kalloopara, Mallasalli, Tiruvella, Travancore, a subject of Travancore, is eligible for appointment to any civil office under the Crown to which a native of British India may be appointed.

R.E.Holland,
Secretary to the Government of India.

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We hereby certify that the within named K.C.Chakko* has duly served twelve months in our office as Assistant under this Agreement. He has been engaged upon the design of steel roofs; a reinforced concrete warehouse, retaining walls, silos, and foundations; the reorganisation and extension of the heating apparatus for a large College; sewage disposal works for a large Government aeronautical depot, with pumping station, septic tanks, filter beds, etc. and extension of same to meet the requirements of an adjoining military camp; and the general work of a drawing office. He has also made himself useful in working out and checking several advanced examination papers in engineering subjects. We have found him particularly well founded in theory and apt at applying his knowledge practically. He has been industrious and obliging and we can with confidence recommend him for any post where integrity and fidelity are essential.

(Sd.) Henry Adams & Son.

12th.September 1917.

* Refers to the Memorandum of Agreement.

UNIVERSITY OF LONDON, UNIVERSITY COLLEGE.

GOWER STREET, LONDON, W.C.1.

Telephone No. 734 Museum.

January 25th 1921.

E.G. COKER D.Sc. F.R.S. M. INST C.E.
Professor of Civil & Mechinical Engineering.

I have very much pleasure in stating that Mr K.C. Chakko my present Research Assistant, was a student of the Civil and Municipal Engineering Department of this College during the three Sessions 1913-1916. He was easily the best man of his year, taking the majority of the Class prizes and Medals, and at the conclusion of his course was awarded the College Diploma in Civil and Municipal Engineering with distinction. At the B.Sc Examination in Engineering of the University of London of 1916 he was awarded First Class Honours, being in fact the head of the list.

He afterwards spent a year as a pupil of Messrs Henry Adams & Son, Civil Engineers of Queen Victoria Street, and has had a few months experience in constructional work.

Since September 1917, he has been my Research Assistant in connection with Photo-Elastic Investigations on the stress distribution in materials. He has shown exceptional ability in this work and for it he was awarded the Master of Science Degree in Engineering last year. Some of these investigations are described in the following joint papers: "Photo- Elastic and Strain Measurements of the Effects of Circular Holes on the Distribution of Stress in Tension Members" in the Proceedings of the Institution of Engineers and Shipbuilders in Scotland: "The Stress-Strain Properties of Nitro-Cellulose and the Law of its Optical Behaviour" in the Philosophical Transactions of the Royal Society 1920. A further paper on "Contact Pressures and Stresses" is in course of publication by the Institution of Mechanical Engineers.

During the present Session Mr Chakko is assisting in the teaching work of the Engineering Department, and is also carrying out some investigations for presentation as a Thesis for the Degree of D.Sc. in Engineering of the University of London.

I wish to say that I have the very highest opinion of his ability and character, based on several years personal knowledge, and I feel that, when he returns to India, as he proposes to do at the end of this Session, he will be of great service to his country in the direction of scientific investigation and research in engineering and applied science, if an opportunity is afforded him.

I have, therefore, very much pleasure in stating these facts and my opinion in the hope that a suitable post will be found for quite an exceptional young engineer of proved scientific ability.

Sd E.G. COKER

Dean of the Faculty of Engineering
of the University of London.

[COPY.]

UNIVERSITY OF LONDON,
UNIVERSITY COLLEGE,
GOWER STREET, W.C.

8th August, 1916.

I have pleasure in certifying that MR. K. C. CHAKKO has been a student in the departments of Civil and Municipal Engineering at this College for the last three years.

Amongst other subjects, he has attended the courses of instruction in Surveying and Municipal Engineering design, under my tuition.

In Surveying, he gained 1st Class certificates in both the Junior and Senior divisions, and qualified for the prize in the latter. He also attended the class in the country during the Summer vacation for field practice, and I believe he has acquired a sound and useful knowledge of the principles of Surveying.

In Municipal Engineering he worked out designs from practical data, for water supply and sewerage schemes and the like, including the preparation of finished drawings and, in some cases, the taking out of quantities etc., in addition to the working out of the actual design.

In this subject, also, MR. CHAKKO, equally with another student, qualified for the prize.

MR. CHAKKO has generally been a thoroughly satisfactory student. He has proved himself both assiduous and intelligent. He also possesses considerable originality, and I believe him to be thoroughly trustworthy.

At the end of his College course he was awarded the Diploma in Civil and Municipal Engineering, with distinction, and he also obtained 1st Class Honours in the examinations for the Engineering degree at the University.

M. S. M. ORMSBY, M.INST. C.E.I.
Reader in Surveying, etc.

78 86

[Copy.]

University of London,
University College,
Gower Street, W.C.

31st July, 1916.

I have especial pleasure in stating in regard to Mr. K. C. Chakko that I formed a very high opinion of his ability and character while he was my student here (1913—1916). He is capable, painstaking, quick and indefatigable, and possesses sound engineering instincts. He will prove, too, a very pleasant man to work with.

W. Eccles,
University Reader in Graphics

79 87

[Copy.]

University of London,
University College,
Gower Street, W.C.

8th August, 1916.

Mr. K. C. Chakko has been a student in the Engineering Dept. of this college for the past three years, and during the course of his studies has proved an able and painstaking student.

He has just finished his course and obtained the the degree of Bachelor of Science in Engineering with First-class Honours.

From what I have seen of Mr. Chakko's work in lectures, drawing office and laboratory, I can confidently recommend him for the favourable consideration of any one to whom he may apply for any Civil Engineering Post.

W. J. Goudie,
(Engineering Laboratory).

[Copy.]

University of London,
University College,
Gower Street, W.C.

12th Augnts, 1916.

As regards the work of Mr. K. C. Chakko at University College, I have much pleasure in testifying that he was a most satisfactory student in every way, and the honours he obtained here scarcely require comment.

As I came into intimate contact with Mr. C. throughout his course, I should like to add my personal opinion in regard to what is equally important in life, that he has tact, judgment and character, which will enable him to work harmoniously with his colleagues, and I believe that, given the opportunity, he will be as successful in practical life as he has been as a student.

With my best wishes that this may be so, I add my signature.

Ernest Sprague, A.M. Inst. C.E.
Lecturer in Hydraulics and Strength of Materials.

[Copy.]

ALEX. FINDLAY & Co., Ltd.,
Steel Roof & Bridge Builders and Structural Engineers.

Parkneuk Works,
Motherwell.

26th September, 1914.

This is to certify that K. C. Chakko has been in our employment for the past two months—one month was spent in our Bridge Shop and the other in our Template-loft.

During this time he has had experience in the manufacture of Steel Bridge Work, and we have pleasure in stating that while with us he gave us every satisfaction with work entrusted to him, and was most attentive to his duties.

He now leaves our employment to pursue his studies in London, and it will afford us much pleasure to hear of his future success.

John Thomson,
Works Manager.

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[Copy.]

Wishaw Iron & Steel Works.

Wishaw.

25th September, 1915.

I hereby certify that Mr. K. C. Chakko has been working in our Engineering Departments for the four weeks ending the above date.

D. T. Jenkins,

Works Manager.

83 91

[COPY.]

MADRAS CHRISTIAN COLLEGE.

10th July, 1913.

MR. K. C. CHAKKO, B.A., is well known to me as a student of the Christian College during the past four years. I am very pleased to be able to say that he has impressed me very favourably as a young man of excellent character and considerable ability. He always kept well abreast of the work of his classes and ended his course by being first in the B.A. Degree Examination in Mathematics and Physics.

A. MOFFAT,
Professor of Physics.

84

Subject

Mr. K. C. Chakko's application for appt. to the I.E.S.

Law (Edn) I

C.933/A., from Mr. Chakko, d/ 9.2.21

Mr. Chakko's name has been considered in connexion with the filling of the vacant post of Professor of Civil Engineering at the College of Engineering. (Vide G. of I's telegram at p. 5 Go. No. 157 Ed. d/ 1.2.21.) Please see pp 10 to 13, 27, 30 & 31 of the notes to that G.O. Eventually the G. of I. have been asked to move the Secy. of State to consider the qualifications of one captain Stradling who is considered suitable for the post. There is no other vacancy just now for which Mr. Chakko's name may be considered. It may be observed that Mr. Chakko has applied to the Board of Education in England for appt. to the I.E.S. ~~The present application may perhaps go to DP I. [illegible] for [illegible]~~ — Vide list with Go. No. 643 Edn, d/ 19.5.19 & the G. of I. have stated that this list should also be taken into consideration in making recommendations for filling vacancies.

2 The present application may stitched with Go. 157 Ed. d/ 1.2.21

(Z)

Law (Edn)

Lodged & stitched (Z) with Go 157 Ed. d/ 1.2.21

[signature] 22/3/21

No. 3156 at p. 2 of slip (P)

(P) [signature] 19.3.21

(C.74 N.F. only)

[illegible] 933/A-1 16.3.21

(Z)

10 MAR 1921

10 MAR 1921

No. No. 168 18.3.21

1267A

[signature] 12/3/21

DP [illegible] 157 3/21

[illegible] 16/3/21

Edn. C No. 1806 A. 4.4.21

No. 493 93

Government of India,
DEPARTMENT OF EDUCATION.
(Education)

Delhi, the 31st March 1921.

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Sd/-
M.I. Personal.

From

Dr. Wali Mohammad, M.A., Ph.D.,
Asstt. Secretary to the Government of India,

To

The Secretary to the Government of Madras,
Home (Education) Department.

Sir,

I am directed to forward for information a copy of a letter, with enclosures, from the India Office No. J. & P.1119, dated the 4th March 1921, on the subject of the candidature of Mr. K.C. Chakko for an appointment in the Indian Educational Service.

I have the honour to be,
Sir,
Your most obedient servant,

Wali Mohammad

Asstt. Secretary to the Government of India

DUPLICATE.

INDIA OFFICE,
LONDON, S.W.1.

J.& P.1119. 4 March, 1921.

Indian Educational Service:
candidature of Mr.K.C.Chakko.

Dear Sir,

I forward herewith the marginally noted papers regarding an application for appointment to the Indian Educational Service which has been submitted by Mr.K.C. Chakko direct to the Government of Madras in accordance with the revised procedure for the submission of applications by Indians in this country. These papers are sent to you with reference to paragraph 9 of the Secretary of State's despatch No.169 Public, dated the 27th November, 1919, in which it was stated that the Secretary of State might bring informally to the notice of the Government of India the qualifications of any Indian student who had specially distinguished himself in this country.

From Secretary to High Commissioner 17th February with enclosures.

Mr.Chakko headed the list at the B.Sc.Examination in Engineering of the London University in 1916, and was awarded first class Honours. He has since taken the M.Sc. degree and hopes to secure the degree of D.Sc. in Engineering this year. He has also spent a year with a firm of Consulting Engineers, and Dr.E.G.Coker, Dean of the Faculty of Engineering in the University of London, with whom he is at present working and to whom he has been known for several years, has formed a very high opinion of his ability and character.

A duplicate copy of this letter and enclosures is forwarded in case you may wish to send it to the Government of Madras.

Yours faithfully,

(Sd.) E. PENARD.
Secretary,
Judicial & Public Department.

The Secretary to the
Government of India,
Education Department.

Office of the High Commissioner for India,
India Office, S.W.1.
17th February 1921.

Sir,

I am directed by the High Commissioner to forward to you the enclosed letter, and its accompaniments, from the Dean of the Faculty of Engineering of University College, London, recommending Mr.K.C.Chakko for employment under the Government of India.

I am to add that Mr.Chakko has been very strongly recommended to the High Commissioner as a suitable candidate for appointment to the Indian Educational Service, and to express the hope that you will be so good as to take such steps as may be possible, and desirable, to see that his name is brought to the notice of the Department of the Government of India concerned with the recruitment of Indian applicants for the Indian Educational Service.

I am, Sir,
Your obedient Servant,

(Sd.) [illegible]
Secretary to the High Commissioner.

The Under-Secretary of State
for India,
J.& P.Department,
India Office.

UNIVERSITY OF LONDON,
UNIVERSITY COLLEGE,
Gower Street,
London,W.C.1.
February 11th 1921.

Sir William Meyer,
India Office,
S.W.

Dear Sir,

I have much pleasure in enclosing a letter from Mr.K.C.Chakko, my Research Assistant, accompanied by copies of a number of testimonials, which I hope will give you sufficient information on which to base a recommendation for his employment by the Indian Government.

I have indicated my high opinion of this student in a testimonial, copy of which is attached to this letter, and I should like to say again what I have said in the letter that I have never had an Indian Student of so much ability and of such a high character as Mr.Chakko has proved himself to be during the 6 years or so that he has spent with me, first as student and then as Research Assistant.

I believe that if a suitable opportunity is given him in India he will be of very great service to his

his country, especially in the field of Research in Applied Science of an Engineering character, and if a teaching post or something of that nature could be found for him it will give him sufficient leisure to pursue original investigations, in which case I feel quite sure that he will justify his appointment.

I am, Dear Sir,
Yours faithfully,
E.G.Coker,
Dean of the Faculty of Engineering.

28

INDIAN STUDENTS HOSTEL,

Keppel Street,

W.C.1.

11th February 1921.

Dear Sir,

I beg to place before you the following general statement of my career for your consideration. I am a qualified Engineer and took the B.Sc.(Honours) degree in Civil and Mechanical Engineering of the University of London in 1916, and afterwards spent a year as an Assistant in a firm of Consulting Engineers. From 1917 I have been working as Research Assistant to Prof.E.G.Coker, of University College,London, with the aid of a Grant from the Government Department of Scientific and Industrial Research, and was awarded the M.Sc.degree in 1919 for experimental work there. I am proposing to submit a Thesis for the Doctor of Science degree in Engineering during the present year. An opportunity has been afforded me this Session of helping in the teaching work of the Engineering Department of University College,as it is my desire to serve in the Indian Educational Service, and with this object in view I have sent an application to the Government of Madras,of which I enclose a copy;

Sir Wm.Meyer. and

28 99

and I desire to express my very warm thanks to you for your consideration and courtesy in taking an interest in my case. I also wish to say that I am willing to work in any part of India and to take up any Civil Engineering subject for which I may be considered as qualified. My work at University College has been principally on the strength of materials,the design of Machines and Structures,and Surveying. I could also if necessary take up the organisation and prosecution of Research work in Engineering Science if an opportunity presents itself.

I enclose an account of my career up to the present time; also a notification from the Government of India, and the following testimonials.

1. Prof.E.G.Coker,D.Sc.,F.R.S.,Dean of the Faculty of Engineering.
2. Messrs.Henry Adams & Son,Consulting Engineers,Queen Victoria Street,London,E.C.
3. Mr.M.T.Ormsby,Reader in Surveying.
4. Dr.W.H.Eccles,Reader in Graphics:(now Professor at Finsbury Technical College)
5. Mr.W.J.Goudie,University College (now at Glasgow University).
6. Mr.E.H.Sprague,University College.
7. Manager,Parkneuk Works,Motherwell.
8. Manager,Wishaw Iron and Steel Works,Wishaw.
9. Rev.A.Moffat,Madras Christian College,Madras.

Yours obediently,

K.C.Chakko.

8 97 100

INDIAN STUDENTS' HOSTEL,
KEPPEL STREET,
LONDON,W.C.1.
27th January 1921.

To The Director of Public Instruction,
Madras.

Dear Sir,

I am a qualified engineer and it is my desire to serve under the Government in the Indian Educational Service. When I was in Madras in July last (1920) I had the pleasure of an interview with the Director. He asked me to send in an application which I did in the same month, sending the testimonials that were with me at the time. I came back to London in September in order to continue with the work I have been doing under the Government Department of Scientific and Industrial Research in London. During the present session I intend to prepare and submit a Thesis for the Degree of Doctor of Science in Engineering of the London University. I hope to return to India in the autumn of this year.

In teaching, I am prepared to take up any civil Engineering subject, my special line being Strength of Materials. Design of Machines and Structures,and also Surveying. I could also if necessary take up organisation

100 053

89 S 98 101

organisation of Engineering or other research.

I am willing to work in any part of India and therefore I shall be obliged if you will kindly put my application also before the Central Government.

I enclose an account of my career in Chronological order.

The following testimonials (in duplicate) are also enclosed.

(1) Notification of the Government of India.
(2) Professor E.G.Coker,D.Sc.,F.R.S.,Dean of the faculty of Engineering.
(3) Messrs.H.Adams and Son Consulting Engineers Queen Victoria Street,London.
(4) Mr.M.T.Ormsby,Reader in Surveying.
(5) Dr.W.H.Eccles,Reader in Graphics (Now Professor at Finsbury Technical College).
(6) Mr.W.J.Goudie,University College (New Assistant Professor at Glasgow University).
(7) Mr.E.H.Sprague, University College.
(8) Manager,Parknenk Works,Motherwell.
(9) Manager,Wishaw Iron and Steel Works,Wishaw.
(10) Rev.A.Moffat,Madras Christian College.

Yours obediently,

K.C.Chakko.

No.625 I.B.
Government of India.
Foreign and Political Department,
Delhi the 18th February 1919.

NOTIFICATION

In exercise of the power conferred by section 96-A of the Government of India Act,1915 (5 & 6 Geo.5,ch.61), the Governor General in Council,with the approval of the Secretary of State in Council, is pleased to declare that Mr.Kayalathu Chakko Chakko, son of Mr.Kayalathu Chakko Chakko, of Kalloopara,mallapalli,Tiruvalla,Travancore,a subject of Travancore,is eligible for appointment to any civil office under the Crown to which a native of British India may be appointed.

R.E.Holland,
Secretary to the Government of India.

UNIVERSITY OF LONDON,UNIVERSITY COLLEGE,
Gower Street,
LONDON,W.C.1.

January 25th 1921.

I have very much pleasure in stating that Mr.K.C. Chakko,my present Research Assistant, was a Student of the Civil and Municipal Engineering Department of this College during the three Sessions 1913-16. He was easily the best man of his year,taking the majority of the class prizes and medals, and at the conclusion of his course was awarded the College Diploma in Civil and Municipal Engineering with distinction. At the B.Sc.Examination in Engineering of the University of London of 1916 he was awarded First Class Honours,being in.fact the head of the list.

He afterwards spent a year as a pupil of Messrs. Henry Adams and Son,Civil Engineers of Queen Victoria Street, and has had a few months experience in constructional work.

Since September 1917 he has been my Research Assistant in connection with Photo-Elastic Investigations on the stress distribution in materials. He has shown exceptional ability in this work and for it he was awarded the Master of Science Degree in Engineering

Engineering last year. Some of these investigations are described in the following joint papers: "Photo-Elastic and Strain Measurements of the Effects of Circular Holes on the Distribution of Stress in Tension Members" in the Proceedings of the Institution of Engineers and Shipbuilders in Scotland; "The Stress-Strain Properties of Nitro-Cellulose and the Law of its Optical Behaviour" in the Philosophical Transactions of the Royal Society 1920. A further paper on "Contact Pressures and Stresses" is in course of publication by The Institution of Mechanical Engineers.

During the present Session Mr.Chakko is assisting in the teaching work of the Engineering Department, and is also carrying out some investigations for presentation as a Thesis for the Degree of D.Sc.in Engineering of the University of London.

I wish to say that I have the very highest opinion of his ability and character, based on several years personal knowledge, and I feel that, when he returns to India, as he proposes to do at the end of this Session, he will be of great service to his country in the direction of scientific investigation and research in engineering and applied science, if an opportunity is afforded him.

I have, therefore, very much pleasure in stating these

these facts and my opinion in the hope that a suitable post will be found for quite an exceptional young engineer of proved scientific ability.

E.G.Coker,

Dean of the Faculty of Engineering
of the University of London.

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We hereby certify that the within named K.C. Chakko has duly served twelve months in our Office as Assistant, under this Agreement. He has been engaged upon the design of steel roofs; a reinforced concrete warehouse, retaining walls, silos, and foundations; the reorganisation and extension of the heating apparatus for a large College; sewage disposal works for a large Government aeronautical depot, with pumping station, septic tanks, filter beds, etc. and extension of same to meet the requirements of an adjoining military camp; and the general work of a drawing office. He has also made himself useful in working out and checking several advanced examination papers in engineering subjects. We have found him particularly well grounded in theory and apt at applying his knowledge practically. He has been indistrious and obliging and we can with confidence recommend him for any post where integrity and fidelity are essential.

Henry Adams & Son.

17th September 1917.

* Refers to the memorandum of Agreement, between Messrs. H.Adams and Son and Mr.K.C. Chakko.

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UNIVERSITY OF LONDON,
UNIVERSITY COLLEGE,
GOWER STREET, W.C.

8th August 1916.

I have pleasure in certifying that Mr.K.C.Chakko has been a student in the departments of Civil and Municipal Engineering at this College for the last three years.

Amongst other subjects, he has attended the courses of instruction in Surveying and Municipal Engineering design, under my tuition.

In Surveying, he gained 1st Class certificates in both the Junior and Senior divisions, and qualified for the prize in the latter. He also attended the class in the country during the Summer vacation for field practice, and I believe he has acquired a sound and useful knowledge of the principles of Surveying.

In Municipal Engineering he worked out designs from practical data, for water supply and sewerage schemes and the like, including the preparation of finished drawings, and, in some cases, the taking out of quantities etc. in addition to the working out of the actual design.

In this subject, Mr.Chakko, equally with another student, qualified for the prize.

Mr.Chakko

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Mr.Chakko has generally been a thoroughly satisfactory student. He has proved himself both assiduous and intelligent. He also possesses considerable originality, and I believe him to be thoroughly trustworthy.

At the end of his College course he was awarded the Diploma in Civil and Municipal Engineering,with distinction,and he also obtained 1st Class Honours in the examinations for the Engineering degree at the University.

M.S.M.Ormsby, M.Inst. C.E.I.

Reader in Surveying,etc.

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UNIVERSITY OF LONDON,

UNIVERSITY COLLEGE,

GOWER STREET,

W.C.

31st July 1916.

I have especial pleasure in stating in regard to Mr.K.C.Chakko that I formed a very high opinion of his ability and character while he was my student here (1913-1916). He is capable,painstaking,quick and indefatigable, and possesses sound engineering instincts. He will prove,too, a very pleasant man to work with.

W.Eccles,

University Reader in Graphics.

UNIVERSITY OF LONDON,
UNIVERSITY COLLEGE,
GOWER STREET, W.C.
8th August 1916.

Mr.K.C.Chakko has been a student in the Engineering Department of this college for the past three years, and during the course of his studies has proved an able and painstaking student.

He has just finished his course and obtained the degree of Bachelor of Science in Engineering with First-class Honours.

From what I have seen of Mr.Chakko's work in lectures, drawing officer and laboratory, I can confidently recommend him for the favourable consideration of any one to whom he may apply for any Civil Engineering Post.

W.J.Goudie,
(Engineering Laboratory)

UNIVERSITY OF LONDON,
UNIVERSITY COLLEGE,
GOWER STREET,
W.C.
12th August 1916.

As regards the work of Mr.K.C.Chakko at University College, I have much pleasure in testifying that he was a most satisfactory student in every way, and the honours he obtained here scarcely require comment.

As I came into intimate contact with Mr.C. throughout his course, I should like to add my personal opinion in regard to what is equally important in life, that he has tact, judgment and character, which will enable him to work harmoniously with his colleagues, and I believe that, given the opportunity, he will be as successful in practical life as he has been as a student.

With my best wishes that this may be so, I add my signature.

Ernest Sprague, A.M. Inst.C.E.
Lecturer in Hydraulics and Strength of Materials

ALEX FINDLAY & CO.LTD.
Steel Roof & Bridge Builders and
Structural Engineers.

Parkneuk Works,
Motherwell.

26th September 1914.

This is to certify that K.C.Chakko has been in our employment for the past two months - one month was spent in our Bridge Shop and the other in our Templateloft.

During this time he has had experience in the manufacture of Steel Bridge Work, and we have pleasure in stating that while with us he gave us every satisfaction with work entrusted to him,and was most attentive to his duties.

He now leaves our employment to pursue his studies in London,and it will afford us much pleasure to hear of his future success.

John Thomson,
Works Manager.

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WISHAW IRON AND STEEL WORKS,

WISHAW.

25th September 1915.

I hereby certify that Mr.K.C. Chakko has been working in our Engineering Departments for the four weeks ending the above date.

D.T.Jenkins,

Works Manager.

MADRAS CHRISTIAN COLLEGE.

10th July 1913.

Mr.K.C.Chakko,B.A.,is well known to me as a student of the Christian College during the past four years. I am very pleased to be able to say that he has impressed me very favourably as a young man of excellent character and considerable ability. He always kept well abreast of the work of his classes and ended his course by being first in the B.A. Degree Examination in Mathematics and Physics.

A.Moffat,

Professor of Physics.

Sectt. II- 8 (b)—29,004—16-1-17. HD 38. 6.4.21

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Subject.

Mr. Chakko's appl.n for appt: to the I.E.S.

Law (Edn) Deptt.

c. 1806/A, from the G. of I., 493, 31.3.21

M1 for perusal R.R.R. 4.4.21

[The application said to have been submitted direct by Mr. Chakko (p.3 c.f.) the notes thereon are at slip (V).]

4.4.21

5.4.21

6.4.21

M1 - Mr. Chakko - will certainly prove a valuable acquisition if Madras is given a chance of employing him.

SECRETARY TO GOVERNMENT OF MADRAS HOME DEPARTMENT -8 APR. 1921

May be lodged and stitched with G.O. No: 157 Ed., dt 1.2.21

(2)

12.4.21

12/4/21

21/4/21

REGISTRAR HOME DEPT. 23 APR. 1921

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