Put away
[illegible]

Scott II-27—58,094—4-11-46.

(1)

E. & P. H. (1948) Department.

Ms. **SERIES.**

[illegible]

G.O. NO. Ms. 482 Education.

482
11.3.48

Dated the 11th March 1948.

50

[Despatch Abstract.]

TECHNICAL EDUCATION OVERSEAS - 1945-46 - Messrs. B.S. Ramakrishnan and G.S. Ramasamy - Extension in the periods of scholarship - Granted - Paper Recorded.

Back Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Further Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

AIR MAIL.

②

No. F. 3-11/45.O.D.IV.
Government of India.
Ministry of Education.

New Delhi 3, the 21st January, 1948.

ASST. SECRETARY TO GOVERNMENT, EDUCATION AND PUBLIC HEALTH DEPT.
23 JAN 1948

From
Sir Shanti Swarup Bhatnagar,
OBE., D.Sc., F.R.S.,
Secretary to the Government of India.

To
The Secretary to the Government of Madras,
Education and Public Health Department,
Madras.

5399

Subject:- ADVANCED STUDIES OVERSEAS IN RESPECT OF M/S. B.S. RAMAKRISHNAN AND G.S. RAMASWAMY, 1945 SCHOLARS - EXTENSIONS IN THE PERIOD OF SCHOLARSHIP.

......

Sir,

pp5A11cF

I am directed to forward herewith for favour of necessary action, copies of letters Nos. G. 263/45 and G-268/45, dated 3rd November, 1947, and 4th November, 1947, respectively from the Indian Embassy, Washington, regarding the studies and training of Messrs B.S. Ramakrishnan and G.S. Ramaswamy respectively, in the United States of America.

2. As Mr. Ramakrishnan had already taken the M.Sc. degree in India, he was permitted to work directly, only for the Ph.D. degree at Illinois Institute of Technology which cannot be completed before September, 1948. The University authorities and the Educational Liaison Officer at the Indian Embassy, Washington, have recommended an extension in the scholarship period for nine months (i.e.) from January, 1948, to September, 1948, in order to enable the scholar to complete the Ph.D. degree in Electrical Engineering-Sound Technology at the Illienois Institute of Technology in September, 1948. If the extension were to be refused, Mr. Ramakrishnan will return ~~with~~ without obtaining any Degree, though he would have completed most of the requirements for the Doctors Degree.

3. Mr. G. S. Ramaswamy completed the Master's degree in Civil Engineering at the California Institute of Technology in June 1947. Later on, his Professors advised him to take the Professional Degree course in Civil Engineering at the Institute,

which is of one years's duration after the Master's degree . The University authorities and the Educational Liaison Officer have strongly recommended an extension in his scholarship period for six months (i.e.) from January, 1948 to June, 1948, so as to enable Mr. Ramaswamy to complete the work for obtaining the Professional Degree in Civil Engineering at the California Institute of Technology in June, 1948.

4. In view of the satisfactory reports on the two scholars' work, and the recommendations of the University authorities and the Educational Liaison Officer, Government of India are inclined to agree to the proposed extensions in the scholarships of M/S. B.S. Ramakrishnan and ~~and~~ G.S. Ramaswamy upto September, 1948, and June, 1948 respectively. The Government of Madras may kindly consider the cases particularly from the viewpoint of the type of work the scholars are expected to take up on return to India, and communicate their decision to the Government of India, telegraphically.

This may kindly be treated as 'urgent'.

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

DKHingorani
for Secretary.

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File No. G263/45 ③

November 3rd, 1947.

Dear Mrs Johari,

I enclose an application from the 1945 Madras Government Candidate, Mr. B. S. Ramakrishna, for an extension in the period of his scholarship. Copies of supporting letters from Dr Whitehead and Dean Lewis are also enclosed.

pp 7-19 infra

Mr. Ramakrishna arrived in this country on the 28th of December 1945. He desires an extension for nine months, until September 1948. We do not like the idea that the Candidate work for a Doctorate degree unless he is asked to take up a teaching post on his return. I do not know what the Provincial Government would offer him on his return but if it a teaching post, we would certainly support the application.

You may please consult the Provincial Government and let me have a reply quickly, at any rate before the 15th of Devember, 1947.

Yours sincerely,

(sgd) A. M. D'Rozario
Deputy Educational Liaison Officer.

Encls.
amd/d

Mrs. P. Johari,
Ministry of Education,
Government of India,
NEW DELHI, 3, India.

August 31, 1947

④

B.S. Ramakrishna,
(Madras Govt. Scholar,
Year of Selection '45)

To,
The Educational Liaison Officer to the Government of India,
635, "F" Street,
Washington 8 D.C.

Subject;-Application for extension of scholarship to enable me to complete my work for the Ph.D. degree.

Dear Sir,

I have been at the Illinois Institute of Technology since February, 1946 as a full-time student, carrying work in Acoustics and the related fields of Radio, Sound Recording etc. in the departments of Physics and Electrical Engineering.

Considering the background of my earlier education and the fact that I already possessed the degree of Master of Science from India, my professors have advised and permitted me to work directly for the Ph.D. degree in Electrical Engineering. Accordingly, I have registered for the Doctor's degree in Electrical Engineering and have now completed the required credit in course work and passed the Foreign Language Examination.

Under extremely fortunate circumstances, I have been able to make arrangements with the Armour Research Foundation (a well known Industrial Research organization serving the industries of Chicago and the Mid-West) to carry my thesis work - an agreement which has been sponsered and accepted by the Illinois Institute of Technology. My association with the Research Foundation for the last one year has proved to be of rare value as I have had an opportunity of knowing at first hand and participating in the problems of Industrial Research in Acoustics and the related fields of Radio and Electronics. In view of the difficulties that lie in the way of foreign students getting industrial experience, I consider this a unique opportunity as my work with the Foundation is also satisfactory as a part of the academic requirements for the Doctor's degree.

I will be completing two years of my stay at the Institute by the end of February 1948, and I need one to two terms thereafter to complete my thesis work. I request you, therefore, to make the necessary arrangements for the extension of my scholarship till September 1948 to enable me to complete my work for the Doctor's degree.

The Dean of the Graduate School of the Illinois Institute of Technology is also sending in a separate letter his approval and confidence in my ability to complete the work by that time.

Hoping you will take the necessary action immediately,

372, International House,
1414 East 59th Street,
Chicago 37; U.S.A.

Yours sincerely,

B.S. Ramakrishna

(B.S. Ramakrishna.)

C
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P
Y

ILLINOIS INSTITUTE OF TECHNOLOGY

Technology Center, Chicago, 16.

October 9, 1947

Dr. B. K. Bryam
Educational Liaison Officer
Embassy of India,
Washington, D.C.

Dear Dr Bryam:

Upon my return to Chicago I find that Dr Whitehead has already written you regarding the extension of the scholarship of Mr. Ramakrishna. I would like to add my support to this recommendation.

Earlier in the year I had some reservations regarding Mr. Ramakrishna's diligence and application, which made me somewhat hesitant in suggesting that his scholarship be extended. However, after reviewing his work for the summer and talking with his advisers I believe that Mr. Ramakrishna has the capacity to complete his work for the Doctorate with credit by the end of the fall semester of 1948, ending in January 1949. 9/48. I think the work which he may do will be quite satisfactory, and will add materially to the knowledge in his special field of Physics.

It has been our plan to have Mr. Ramakrishna conduct his thesis work under the guidance of one of the Physicists of the associated Armour Research Foundation, because the Foundation has much better facilities in the field of Mr. Ramakrishna's specialty than are at the present available in the school. Arrangements have been worked out, and we would be very glad to see the plan carried to completion.

I hope therefore that it will be possible to arrange for the extension of Mr. Ramakrishna's scholarship to make this possible.

Yours very truly,

(sgd) W. A. Lewis
Dean, Graduate School

c.c. Dr. E. R. Whitehead

7

COPY.

ILLINOIS INSTITUTE OF TECHNOLOGY

Chicago, Illinois.

October 7, 1947

Department of Electrical Engineering
3300 Federal Street.

Dr B. K. Bryam
Educational Liaison Officer to India
Washington, D.C.

Dear Dr Bryam:

In the absence of Dr. W. A. Lewis, Dean of the Graduate School, Mr. B. S. Ramakrishna has asked me to write you in support of his request for an extension of his period of stay at this Institute until September 30, 1948. Mr. Ramakrishna will complete his normal two year period on March 1, 1948, having entered Illinois Institute of Technology, March 1, 1946.

I have conferred with those of our staff who have been in close contact with Mr. Ramakrishna's work, and it is their opinion that his performance warrents the extension of time requested. At present Mr. Ramakrishna is exerting most of his effort toward perparation for the comprehensive examination he plans to take near the latter part of the present semester. Following the examination he plans to devote full time to the completion of his thesis. Under such a programme Mr. Ramakrishna could not receive his Ph.D degree until the end of the fall semester 1948. In this connection it may be pertinent to point out that he has been working directly on a programme leading to the Ph.D and that he will not have taken any other degree at this Institution.

Since the work of the Armour Research Foundation consists of projects sponsored by industrial organizations, it is our feeling that Mr. Ramakrishna will also benefit by carrying out this thesis project under a member of the foundation's staff.

We are confident that Mr. Ramakrishna will complete his programme creditably, and accordingly request that the extension of time be granted.

Very truly yours,

(sgd) Edwin R. Whitehead, Director
Department of Electrical Engineering.

c.c. Dean Lewis

⑧

C
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Chicago, Illinois.
September 29, 1947.

B. S. Ramakrishna
Madras Government Scholar
Year of Selection 1945.

To : The Educational Liaison Officer
635 F Street N.W.,
Washington, D.C.

Dear Sir:

In reply to your letter dates September 19th, 1947 (File No. G263/45), I am furnishing herewith the specific detail required by you in connection with my request for an extension of the period of my scholarship.

(a) Date of arrival in the United States:

I landed in New York on December 28, 1945. However, since it was the middle of the Autumn semester then, I had to wait will the last week of February to be admitted to the Institute for the next semester. During this period I acquainted myself with the Armour Research Foundation and worked in the Magnetic Sound Recording section.

(b)

1. Details of work done at the Institute:

Since March 1st, 1946 I have been a fuul-time student at the Illinois Institute of Technology and have now completed the requirements in course work needed for the doctor's degree. A candidate for doctor's degree is required to have course work in the major field of his study and in addition two other minor fields. Since Accoustics or Sound Reproduction do not form entire fields by themselves in the American Universities, I have taken up Electrical Engineering as the major and Mathematics and Physics as the two minor fields of my study.

In my major field, I have had two courses covering such subjects as Electro-acoustics, Radio, Electronics, Electrical Net Works, Sound reproducing systems, ultra-high frequency and Radar techniques, Electro-magnetic engineering etc.

Under Physics, I have had courses on the more theoretical aspects of Accoustics such as Sound Propagantion, Theory of Vibrations, Ultrasonics and underwater sound signalling, Accoustics of Buildings, Problems of Noise reduction etc.

Under Mathematics, I have taken courses on Functions of Complex Variables, Partial Differential Equations, LaPlace Transform and Transient Analysis etc.

In addition to this I have passed the Foreign Language Examinations, a prerequisite for the candidates for doctor's degree.

I have also been working on my thesis project with the Armour Research Foundation for nearly a year on Electro-Accoustics.

2. Study Tours:

In February 1947, during the vacation period between the Autumn and Winter semesters, I undertook a tour to the East coast and visited the following places:

1. Bell Telephone Laboratories(New Jersey), where I had acquainted myself with the developments taking place in Telephone Research - Loudspeaker design, and Auditorium Accoustics.
2. M.I.T. and Harvard Laboratories(Boston), where I had gone through the Accoustical sections and the work that was in progress there in

under-water

under-water communication and recent development in sound reproduction.

3. Bureau of Standards (Washington) where I have seen the various phases of work in electro-accoustics.

4. Nearer Chiaago, I have made some contacts with the Jensen Radio Co., which specializes in the manufacture of loudspeakers and the Bell and Howell Company which manufactures various kinds of motion picture equipment.

In my own thesis work the Armour Research Foundation, which is essentially an Industrial problem in Electro-accoustics, I have the benefit of learning the methods of dealing with problems that occur in Industry in the practical application of Accoustics and sound recording.

(c) Purpose of extension of the period of Scholarship:

I am applying for extension of the period of my scholarship in order to enable me to complete the thesis work I am now carrying for the Doctor's degree in Electrical Engineering and to make my training sufficiently intensive.

(d) Period of Extension:

upto 9/48

I require an additional period of six months beyond the two years of my stay at the Institute, which I am allowed in the first instance.. to complete my work for the doctor's degree.

(e) What would be achieved if the extension is not granted.

As I have already mentioned at the beginning of the letter, I have been permitted to work directly for the Doctor's degree, and without the extension I shall not be in a position to obtain any degree, although I would have completed most of the requirements for the Doctor's degree.

I request you, therefore, to make the necessary arrangements for extending the period of my scholarship to enable me to make a satisfactory completion of my studies and training in this country, so that I can be in a position to serve the New India at my best,

Yours sincerely,

(sgd) B. S. Ramakrishna

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INTERNATIONAL HOUSE,

1414 East 59th Street,
Chicago, Illinois.

October 12, 1947

Dear Dr. Bryam,

In the absence of the Dean of the Graduate school from the Institute. I requested the Director of the Electrical Engineering Department, to write a letter of his approval in support of my request, dated September 29th, 1947, for the extension of the period of my scholarship.

Dr Lewis, the Dean of the Graduate school has also written another letter after his arrival at the Institute last week, both of which have been mailed to you from the school.

I request you to take up the matter with the Government of India immediately.

Yours sincerely,

(sgd) B. S. Ramakrishna

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File No, G268/45
November 4th, 1947.

(11)

pp23-24 infra

Dear Mrs Johari,

I enclose an application from the 1945 Madras Government Candidate, Mr. G. S. Ramaswamy. Mr. Ramaswamy arrived in this country on the 28th December, 1945, and in order to complete his work at the California Institute of Technology, he requires six months' extension in the period of his scholarship, that is up to June 1948.

This Department supports the application for six months' extension. Letters of recommendation from Professors Martel, Thomas and Converse are also enclosed.

pp25-29 infra

Kindly consult the sponsoring Government and let me have a decision so as to reach me by about the 7th December, 1947.

Yours sincerely,

(sgd) A. M. D'Rozario
Deputy Educational Liaison Officer.

Encls.
amd/d

Mrs P. Johari
Ministry of Education,
Government of India,
NEW DELHI, 3, India.

C
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P
Y.

CALIFORNIA INSTITUTE OF TECHNOLOGY.

G. S. RAMASWAMY
Dept. of Civil Engineering.
California Institition of Tech.
Pasadena, 4, Calif.

12

September 2, 1947.

Dr Bryam
Educational Liaison Officer
635 F Street N.W.,
Washington, D.C.

Dear Dr Bryam:

Subject: Extension of period of scholarship.

This is in continuation of my letter dated the 14th February 1947 and the most helpful personal discussion I had with you on the 21st August 1947. To clarify my position, I shall briefly recapitulate my case. I arrived in this country on the 28th December 1945. Since I arrived too late for the fall term at Cal Tech, I could not register till March. The intervening period was spent in preparing and appearing for the qualifying entrance examinations.

In March 1946, I was duly admitted to full graduate standing to pursue studies leading to the Master's degree. From the beginning of March to the end of June, I tool a full graduate load. As Cal Tech did not offer any summer graduate courses, I joined the Bureau of Reclamation at Denver at the advice of my professor and with your approval. I underwent intensive training with the Bureau between 5th July and August 10th. This was followed by a study tour round the various reclamation works undertaken under the auspices of the Bureau. In September, I was back in Pasadena for the fall term. The fall and spring terms were spent in taking courses. By the end of March I had met all the requirements for the Master's degree, which, however, I did not receive till June when Cal Tech holds its commencement.

Early in February I had a long discussion with Professor Martel regarding my future plans. I have been sent here by the Madras Government specifically for teaching and I outlined in the course of these discussions, what I thought I would be called upon to do, when I get back. Professor Martel thought that I should work for Ph.D since the Master's degree is just rudimentary and hence inadequate for teaching and carrying on independent research. He also suggested that the experience of another school might serve to enlarge my outlook. He recommended a transfer to Stanford -- to work under Professor Timoshenko, and internationally known scholar and one of the foremost figures in the field of Structural Engineering. Further, to facilitate my admission at Stanford, my professor was kind enough to write a personal letter of recommendation to Professor Timoshenko.

It was at this juncture, I wrote the letter of February 14th, referred to above which was followed by my professor's recommendatory letter of 21st Feb 1947.

Subsequently, however, things took a different turn and I had to modify my plans. Professor Timoshenko informed me that he would be glad to take me in as a research student only in September '47, since we was planning to be abroad till then. I conferred with my professor again and he advised me to register for the professional degree of Civil Engineering at Cal Tech for the time being. The Professional Degree takes a year after the Master's and is a kind of preparation ground for the degree of Doctor of Philosophy. So I registered for the Professional Degree in March 1947. From March to June I have put in one term of work for the above degree. Since Cal Tech was not offering any summer courses, I undertook a study tour recommended by my professor and approved by you. In September I shall register at Cal Tech and it will take till June to finish my degree. Since my scholarship expires early in January 1948, I need an extension of 6 months.

If, however, the Government feels that it is advisable to take a Ph.D. my scholarship will need an extension of two years.

P.T.O.

I am enclosing certificates from my professors testifying to the quality of my work during my stay at Cal Tech. I am requesting Professor Martel to forward this letter to you with his remarks.

I request that the Government of Madras be urgently approached to sanction the necessary extension at an early date so that I can make the most efficient layout of my time.

I may be excused for the rather lengthy letter, if it has served to make matter clearer.

Sincerely yours,

(sgd) G. S. Ramaswamy.

C
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Y.

CALIFORNIA INSTITUTE OF TECHNOLOGY
Pasadena, California.

Office of The Dean.

September 18, 1947.

Dr B. K. Byram
Educational Liaison Officer
635 F Street N.W.,
Washington, D.C.

Dear Doctor Byram,

In re: Subramanyam G. Ramaswamy

Mr. Ramaswamy informs me that he is applying for an extension of his training in this country, and he has asked me to address to you a statement relative to the quality of his academic wotk at the California Institute of Technology.

Ramaswamy is a young man of pleasing qualifications who has made himself many friends at the Institute. His intellectual ability and the earnestness with which he has carried on his work have favourably impressed his Professors. It is Ramaswamy's purpose to continue on beyond the Master of Science degree which he received last June so that he may complete the requirements for the Professional Degree, Civil Engineer, which, it is anticipated, would be accomplished during the academic year commencing this month.

In view of Mr. Ramaswamy's all around ability, his stable character, pleasing personality, and the creditable scholarastic record which he has made, I recommend that his request for an extension of training be approved.

Yours very truly,

(sgd) Franklin Thomas
Professor of Civil Engineering
Dean of Students.

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CALIFORNIA INSTITUTE OF TECHNOLOGY
Pasadena.

Civil Engineering

October 2, 1947.

Dr B. K. Bryam
Educational Liaison Officer
635 F Street N.W.,
Washington, D.C.

Dear Doctor Bryam,

Mr Ramaswamy has asked that I write you regarding his application for an extension of his training in the United States. As you know, he completed the requirements for and has been awarded the degree of Master of Science in Civil Engineering. His scholastic work was of such high quality, that it justified his selection from a list of many applicants for admission as a candidate for the degree of Civil Engineer.

Since Ramaswamy expects to teach when he returns to India, I believe it would be desirable for him to devote one more year of study in this country.

Yours very truly,

(sgd) R. R. Martel
Professor of Structural Engineering.

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Y.

CALIFORNIA INSTITUTE OF TECHNOLOGY
Pasadena, California.

Civil Engineering.

September 22, 1947.

TO WHOM IT MAY CONCERN

Mr. G. S. Ramaswamy has been in two of my classes during his studies for a Master's Degree at the California Institute of Technology. These classes were (1) Foundations, which he received an A and (2) Soil Mechanics in which he received a B. These are very excellent grades and indicate a high caliber of student. Mr Ramaswamy has the capacity to do further graduate work with credit to himself and to those he represents.

Sincerely,

(sgd) Frederick J. Converse
Professor of Soil Mechanics

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Ex P.W. Deptt
C2

Endt. No. 5399 Cr/48-1 Edn d 26.1.48

Communicated to the DPI for remarks with ref. to the Scholar, Mr. G.S. Ramaswamy, who ~~he~~ is undergoing advanced studies in "Civil Engg - Structural Engg" and who after completion of studies, is intended for absorption in the staff of the Govt. Engg. Colleges.

The Director is requested to treat the reference as specially urgent.

DM
26/1/48

S
26/1/48

ES
23.1.48

26.1.48

To
The DPI
(with encls)

Despd with encls.
27/1/48

Copy of pp1-3 ante
& Copies of pp21-29 ante

Special
Pl issue today
28.1.48

2
28/1

pp1-19 c

pp1-19 c

Dev. Dept

3

(16)

Memo No 1152 DI/48-1 d. 28.1.48

Sub: Advanced studies - overseas in respect of Mr B.S. Ramakrishnan - Extension of the period of Scholarship.

Ref: Letter from the Govt of India No F3-11/48 ODIV d 21.1.48.

A copy of the Govt of India's letter cited above with relevant enclosures is forwarded to the D I & C. He is ~~is requested~~ requested to say whether the extension of the period of ~~the~~ the scholarship ~~to Mr B.S Ramakrishnan~~ may be granted to Sri B.S. Ramakrishnan.

He is ~~also~~ requested to treat this as specially urgent.

Despd with encls
28/1

Var
29.1.48

28/1.48

CAP
28.1.48

To the DI&C.
R 4.2.48

Dev. Deptt

3/2

Memo No 11152-DI/48-1 d. 28-1-48

Sub: Advanced Studies - overseas in respect of Mr B.S. Ramakrishnan - Extension of the period of Scholarship

Ref: Letter from the Govt of India No F3-11 OS IV d 21.1.48.

A copy of the Govt of India's letter cited above with relevant enclosures is forwarded to the DI & C.E. He is requested to say whether the extension of the period of the scholarship ~~to Mr B.S. Ramakrishnan~~ may be granted to Sri B.S. Ramakrishnan.

He is ~~also~~ requested to return the [illegible] [illegible] request.

28/1/48

To the D I & C

Placed on copy

76 5/2

Vm 5.2.48

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5/2

p 31 f

p 31 f

Reminder

(17)

Dev. Deptt

Memo No 11152 DI/48-2 d - 5. 2. 48

Sub: Advanced studies - overseas in respect of Mr. B. S. Ramakrishnan - Extension of the period of scholarship

Ref: Govt Memo No 11152-DI/48-1 d 28.1.48

The DI&C is requested to send urgently his reply to the Govt Memo cited above

5.2.48

5/2/48

Vm 5.2.48 5/2/48

To the DI&C.

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R.O.C.NO.271-E.3/46

ASST. SECRETARY TO GOVERNMENT
4 - FEB 1948
EDUCATION AND PUBLIC HEALTH DEPT.

Office of the
Director of Public Instruction,
Madras, Dated 3-2-1948

From

Sri D.S.Reddi, M.A.(Oxon),
Director of Public Instruction, Madras.

To

The Secretary to Government,
Education and Public Health Department.

ASSISTANT SECRETARY TO GOVERNMENT
10 FEB 1948
DEVELOPMENT DEPARTMENT

Sir,

Sub: Overseas scholarship - 1945-46 - Candidate Mr. G.S.Ramaswamy - Extension of study period.

8120

With reference to Government Endt. No.5399-C.2/48-1 Edn dated 26-1-1948, I have the honour to state that I agree to the proposed extension in the scholarship of Sri G.S.Ramaswamy upto June 1948.

VRR 3/2

for Director of Public Instruction

RVR 3/2/-

A.S.H.(C2)

Dir. may be requested to return the main file on the subject which was sent to them with this Dept's U.O. No. 5399 C2/48-1 Edn. d. 27-1-48

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Edn U.O 5399 C2/48-3
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11.2.48

SIXTH ASSISTANT SECRETARY TO GOVERNMENT
11 FEB 1948
DEVELOPMENT DEPARTMENT

No. 15[illegible]-C.3/47

Office of the Director of Industries and
Commerce, Madras. Dated 9th February 19

From

P. Govinda Menon Esq., B.E.,
Joint Director of Industries & Commerce,
Madras.

To

The Secretary to Government,
Development Department,
Madras.

Sir,

Sub: Education - Overseas scholarship - Sri B.S. Ramakrishnan-
Extension of.
Ref: Govt. Memorandum No.11152-DI/48-1, dated 28-1-48.

p 31 of

A

I recommend that the extension of the period of training applied for by Sri B.S. Ramakrishnan ~~[illegible]~~ till September 1948 be granted to enable him to take the Ph.D. degree as I consider he may be useful to one of the Polytechnics. The candidate at present seems to be concentrating his attention only on theoretical and research work. It is very desirable that he should also undergo an extensive practical training along side his research work. I therefore suggest that Government of India be requested to try and secure him facilities for undergoing practical training in his subject of study during the period of extension.

10.2.48
for Joint Director of Industries & Commerce.

MTS.

10/2

LDDHC

Letter No. 5399 C2/48-5 Edn. d/ 18-2-48

By Air Mail

Dspd by Air mail.
18.2.48

To
The Secy to the Govt. of India.
Ministry of Edn,
New Delhi, 3

Sir,

Sub Overseas Scholarships - 1945-46 - Messrs B.S. Ramakrishnan and G.S. Ramasan - Extension in the periods of Scholarships.

Ref. Your Letter No. F. 3-11/45-OD 10 d/ 21-1-48.

pp1-3 cf

With ref. to your letter cited I am directed to state that this Govt. agree to the extension of the periods of scholarship of Messrs B.S. Ramakrishnan and G.S. Rameswamy upto Sep '48 and June '48 respectively. ~~and to~~ It is presumed that the G. of I. will share half the cost of the Scholars' training during this period also. The presumption may kindly be confirmed.

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2. It is observed from the port regarding Mr. Ramakrishnan's studies that e is at-present concentrating his attention nly on theoretical and research work. This nt consider it very desirable from the point of view his future employment, after completion of studies at he should also undergo ~~an~~ extensive ractical training along-side his research work.

am therefore to request that the G of I. may e so good as to arrange to secure him facilities or undergoing practical training in his subject study during the period of extension of his scholarship.

p34 cf

13.2.48

13/2/48

Y.O.S.

14/Mar.

Copy to Dev Dept

18.2.48

41

(21)

GOVERNMENT OF INDIA
MINISTRY OF EDUCATION.
NEW DELHI 3, THE 28th FEB. '48.

ASST. SECRETARY TO GOVERNMENT
2 MAR 1948
EDUCATION AND PUBLIC HEALTH DEPT.

CABLE CORW STATE

INDEMBASSY
WASHINGTON

15557

F/3/11/45/OD IV REFERENCE YOUR LETTERS G 263/45 THIRD NOVEMBER 1947 AND G 268/45 FOURTH NOVEMBER AND THIS MINISTRY ENDORSEMENT EVEN NUMBER TWENTYFIRST JANUARY 1948 REGARDING EXTENSION IN SCHOLAR SHIP PERIOD FOR MESSRS B S RAMAKRISHNAN AND G S RAMASWAMY 1945 MADRAS SCHOLARS AAA PROVINCIAL GOVERNMENT AGREE EXTENSION UPTO SEPTEMBER 1948 AND JUNE 1948 RESPECTIVELY AAA GOVERNMENT OF INDIA ALSO AGREE AAA PROVINCIAL GOVERNMENT CONSIDER IT VERY DESIRABLE FROM VIEWPOINT OF SCHOLARS EMPLOYMENT THAT DURING THE EXTENDED PERIOD B S RAMAKRISHNAN MUST UNDERGO EXTENSIVE PRACTICAL TRAINING IN SOUND TECHNOLOGY ALONG WITH THEORETICAL STUDIES AAA KINDLY ARRANGE SAME UNDER ADVICE [illegible] THIS MINISTRY AAA

EDUCIND

Post-Copy by Air mail.

Copy by airmail to the Secretary to the Govt. of Madras, Education and Public Health Department, Madras withreference to his letter No. 5399-C2/48-5 Edn dtaed 18th February 1948. Messrs. B.S. Ramakrishnan and G.S. Ramaswamy will continue to be treated as Provincial Govt. sponsored scholars, the expenditure on whose studies will be shared equally between the Provincial & Central Governments.

pp39-40 ante

By Order,

DK Hingorani

for SECRETARY.

By air mail

22

No.F.3-11/S.22/45-ODIV.
Government of India.
Ministry of Education.
New Delhi 3, the 29th April 1948.

ASST. SECRETARY TO GOVERNMENT
EDUCATION AND PUBLIC HEALTH DEPT.
3 - MAY 1948

From
The Secretary to the Govt. of India.

To
The Secretary to the Govt. of Madras,
Education & Public Health Department,
Madras.

ADVANCED STUDIES OVERSEAS IN
RESPECT OF MR. B.S. RAMAKRISHNA,
1945 SCHOLAR.

***

32538

Sir,

I am directed to refer to this Ministry endorsement No.F.3-11/45-ODIV, dated the 27th Feb., 1948 on the above subject, and to forward herewith for your information and necessary action, a copy of d.o. letter No. 908-263/45, dated the 26th March 1948(with enclosure) from the Deputy Educational Liaison Officer at the Indian Embassy, Washington, regarding Mr. Ramakrishna's studies in the U.S.A. The scholar has already undergone industrial experience with the Armour Research Foundation.

The Government of Madras may kindly communicate their further view in the matter, to this Ministry at an early date, and in particular, indicate whether (a) the scholar should be asked to return after completing his present course of work, or (b) specialize in any especial branch.

It may be added that practical training arrangements are most difficult, if not impossible, to ~~arrange~~ secure.

It is presumed that the suggestion at 2(a) above will meet the case. This may be confirmed.

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

D K Hingorani
for Secretary.

E — Su
C2

~~Enf~~

~~Refer to the D.I & C~~

~~For early remarks~~

Edn no 32538/48. 1 L2
12.5.48

To
The ~~D.I.C.~~
a[illegible]
10.5.48

Dev. No for remarks

11/5/48 54643 Dev

2 93

Dev. Dept

p1 above

To AS

Please see the Govt of India's letter at p1 above and its enclosures at pp 3-5 below. Mr. B.S. Ramakrishnan is private candidate selected in the year 1945-46, for the award of an overseas scholarship for Advanced studies in "Applied Physics – Sound Technology Accoustics and Recording" and is intended after completion of studies for absorption in industries (Govt & private). The DI&C wants to employ him in one of the polytechnics. The letter from the G.O.I at p1 above together with its enclosures at pp 3-5 below may be forwarded to the DI&C and his views obtained. Subject to orders a draft memo is submitted below for approval

p1 infr of (N)

p3 to 6 (N)

p1 above

CPP 18.5.48

Var 17.5.48

17.5.48

p7 below [Memo No 54643 DI/48-1 d 18.5.48]

p9 below [From the DI&C No 1523 C3/47 d 30.5.48]

To AS

The reply from the DI&C at p 9 below may be perused. The views of the DI&C at 'A' on p9 below may be accepted in this Dept and the file returned to E&PH.

CPP 4.6.48

Var 2.6.48 2/6/48

E&PH

E&PH

Dev no No
54643 DI/48-2
4-6-48

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44 23

Copy of letter No.G.263/45, dated the 26th March, '48 from the Education Department, Washington, to the Ministry of Education, New Delhi.

My Dear Hingorani,

Please refer to your cable No.F/3/11/45/DDIv, dated 27th Feb., 1948, insofar as it refers to Mr. B.S. Ramakrishen 1945 Madras scholar.

Your decision was communicated to the scholar, and I enclose a copy of his letter dated the 21st March, 1948 to me. Would the Provincial Government now be satisfied? if they are not, please let me know and I shall return the scholar to India as soon as possible.

I note that his progress report and employment forms ~~hav~~ have been sent to you. These are expected from him any day and as soon as I get them I shall send them to you.

The question of practical experience for our students has already been dealt with from the time to time in my letters to both you and Gangulee. It is not possible to arrange practical training for this scholar beyond what he can himself arrange through the help~~t~~ of his Professors.

Copy of letter dated 2nd March 1948 from B.S. Ramakrishnan, to the Educational Liaison Officer, Washington.

In your letter referred to above you have asked me to let you know about the possibility of obtaining an extensive practical training in Sound technology during the remaining period of may stay in the United States. I wish to make the following observations regarding the same.

I would like to mention, at first, the industrial experience that I have been able to obtain so far. During the last two years I was here, I have been associated with the Armour Research Foundation, and have cooperated in the development work in the 1. Magnetic wire recording, 2. Electro-acoustics and 3. Vibration-analysis sections. I have been working on one of the Foundation ~~made-ar~~ sponsored projects on Loud speaker development, which I have also made arrangements to submit, on completion, as a part of my Ph.D. thesis to the Illinois Institute of Technology. It is, perhaps, unnecessary to say that the Armour Research Foundation is as industrial research organisation serving the Mid-West and that my experiance is of rare value.

The field of Acoustics, however, is rapidly increasing in scope and applications, covering for intance, such wide range of sub-divisions as 1. Architectural Acoustics 2. Ultrasonic communication, 3. Noise reduction, 4. Physiological coustics, 5. Sound recording on disk, film etc., in addition to the alr ady mentioned 6. Electro-acoustics, (which deals with the electrical aspects of acoustical problems), 7. Vibration-analysis, and 8. Magnetic recording etc.,

While I received sound theoretical knowledge in the various phases of Acoustics during the course of my studies at the Illinois Institute of Technology, the possibility of obtaining an intimate knowledge of certain aspects of acoustics like ultrasonic communication is quite limited in view of the 'restricted nature' of the work that is being done mostly in the naval research laboratories. It has also been found extremely difficult, inspite of great efforts on the part of my professors to obtain permission to work in private industries, expecially if the work has commerical possibilities.

I would appreciate greatly if you can let me know ~~wh~~ whether the Government of India would like me to ~~tak an~~

P.T.O.

take an intensive training in any special field, so that I can make my best effort to secure the specific kind of training. I am enclosing a duplicate copy of the letter, so that, if you prefer , you may send a copy to the Government of India and secure an early reply.

I should also like to take this opportunity to express my thanks to you and to the Government of India for granting me the extension of the period, of my scholarhsip.

P/ man
Vm 18/5
12/4 20/5

46

(26)

Gov. Dept 7

Memo No 54643 Di/48-1. d. 18 5.48

Sub: Education – Advanced Studies overseas in respect of Mr. B. S. Rama-krishna. 1945 scholar

p 378 (N) Ref: i From the DI & C. No 15230 3/47 d. 9.2.48
p 4 ii From the Go I No 73-11/S. 22/45 O.D I U d 29.4.48.

p 378 (N) With reference to his letter cited above, pp 1-5 a copy of Govt of India's letter cited above together with copies of enclosures is forwarded to the D I & C. He is requested to offer his remarks thereon urgently. ~~as para 2~~ of the Govt ~~of India's letter as cited~~.

p 18

D.W. with the spare copy 18/5

Vm 17.5.48 17/5/48

CAP 18.5.48

To the D I & C (with encl)

R 1.6.48

47 (26) ~~9~~

Industries and Commerce Department.

From
Sri. P. Govinda Menon B.E.,
Joint Director of Industries
and Commerce, Madras.

To
The Secretary to Government,
Development Department,
Fort St. George, Madras.

No. 1523 C.3/47 dated 30-5-48.

Sir,

Sub: Education - Overseas scholarships - Sri. R.S. Ramakrishna - 1945 scholar - regarding.

p 7 above Ref: Government memo No. 54643-D.I/48-1 dated 18-5-48. 61979

x' mply 'A'

The Government of India have reported that it would be difficult to secure facilities for practical training for Sri. D. S. Ramakrishnan. In the circumstances they may be requested to advise the candidate to return to India on completion of his present course.

V. [illegible] 31-5-48
for Joint Director of Industries and Commerce, Madras.

kap.31-5.

OM 31-5/48.

(67)

No.F.3-11/S-22/45 O.D.IV.
Government of India,
Ministry of Education,
New Delhi 3, the 13th May, 1948.

From

Dr. Tara Chand M.A., D.Phil.
Secretary tot the Government of India.

To

The Secretary to the Government of Madras,
Department of Education and Public Health,
MADRAS.

ASST. SECRETARY TO GOVERNMENT
EDUCATION AND PUBLIC HEALTH DEPT.
17 MAY 1948

Subject:- Scholarships for Advanced Studies Overseas Reports in respect of Provincial Governments sponsored scholars in United States of America.

56524

Sir,

I am directed to forward herewith for the information of the Provincial Government a copy of a Progress Report (with enclosure) in respect of Mr. B.S. Ramakrishna, a 1945 Madras Government sponsored scholar received through the Indian Embassy, Washington.

The Provincial Government may kindly forward to this Ministry, suggestions, if any, in respect of the scholar's further training, particularly from the viewpoint of the employment Mr. B.S. Ramakrishna is expected to take up on his return.

I am to request the Government of Madras kindly to expedite a reply to this Ministry letter of even number dated the 29th April, 1948, regarding the scholar's further programme in the United States of America.

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

DK Hingorani
For Secretary.

SRH/-

DI 49 ~~12~~ -2-

EPH
C2

May be sent to ELO u.o. for remarks in continuation of this Deptt u.o. no 32538/48-C2 of 12.5.48 | A

x L f below
c54443 DI/48

Uz
21.5.48

JD
24.5.48

JSM
25/5/48 Dev

ASST. SECRETARY TO GOVERNM
EDUCATION AND PUBLIC HEALTH DEPT.
5 JUN 1948

60048 DI/48

MAY 1948

Dev. Deptt

Edn u.o. 32538/48-2 C2
26.5.48 To AS

The letter from the Govt of India at p1 above and its enclosures at pp 3-11 13-21 below may be perused and the file returned to E&PH. In view of the letter at p48 of (A) it is presumed that the payment received by Mr B S Ramakrishna will be surrendered to the Govt.

v agency
p3 below

2.6.48 2/6/48

CPG
4.6.48

E&P.H. 41798

Dev u.o. no 60048
4.6.48

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13 50

(28)

International House,
1414 East 59th.Street,
Chicago,37 Ill.

The Educational Liaison Officer for India,
2111 Massachusetts Avenue,
Washington D.C.

March 24th.,1948.

Dear Sir,

The Armour Research Foundation(where I am working my thesis) of the Illinois Institute of Technology has agreed to pay me from 17-3-1948 for my work on one of the projects.The work is concerned with Vibrational problems and forms as essential part of my practical training in Accoustics.

I am paid at the rate of $ 1.75 an hour and would be receiving about$150.00 a month as I devote on the average four hours a day to this project.I am,of course,still a full-time student the work being an integral part of my research experience.Please make the necessary arrangements with the U.S.Immigration Dept. if required.

Yours very sincerely,

Sd/- B.S.Rmakrishna.

EDN. DEPT. FORM. 32c.

MAR 31 1948

REPORT

1946 1948.

Name in block capitals B.S.RAMAKRISHNA.

Scholarship Government of Madras, India. (Year of selection: 1945.)

Government Government of Madras, India.

Date of commencement of scholarship.	December 28th, 1945.
Course of study or training sanctioned and date of approval. Degree sought and date of examination.	Sound technology, Acoustics and Recording. PH.D (~~n~~ in the dept. of Electrical Engineering About September 1948.
University, College or Works in which scholar is pursuing his training.	Illinois Institute of Technology, Armour Research Foundation.
Course of study or training attended during session 19 19 .	Course work in the depts.of 1) Elec. Eng. 2) Mathematics, 3) Physics. Research work with Armour Research Foundation.
All Examinations (including subjects) taken and results and date. (In the Final Examination the degree or diploma obtained should be stated, with subjects taken and honours, if any.)	Details are given on a separate sheet~~s~~. All the Course work and Examinations required for Candidacy to the Ph.D degree (in the dept. of Electrical Engineering) have been successfully completed.
Any Prizes or other Distinctions.	

FOR STUDENTS TAKING PRACTICAL TRAINING:

Name of Firm.	Period	Nature of training.

Education Department,
Indian Embassy,
Washington, D. C.

Signed B.S. Ramakrishna

Date March 20th, 1948.

200/10.4.47-D.

~~16~~ 52

University, College or Works Report on the work of the Scholar during the period under review:-

Mr. Ramakrishna has completed the greater part of his program very creditably. His written comprehensive examinations were virtually all of "A" grade. I believe he is strongest along theoretical lines and that he should endeavor to obtain additional practical experience, if this is possible.

E. R. Whitehead
(E.R.Whitehead.)

Director of the Electrical Engineering
dept. of the Illinois Institute of
Technology.

For Official Use Only

DEPARTMENTAL OBSERVATIONS

Excellent progress. The scholar is likely to return in September 1948.

DR. A. M. D'ROZARIO
Deputy Educational Liaison Officer.
8/4/48

~~12~~ 53

38

ILLINOIS INSTITUTE OF TECHNOLOGY
A CONSOLIDATION OF ARMOUR INSTITUTE OF TECHNOLOGY AND LEWIS INSTITUTE
TECHNOLOGY CENTER, CHICAGO 16

Department of Mathematics

March 24, 1948

The Educational Liaison Officer
2111 Massachusetts Avenue
Washington, D. C.

Dear Sir:

Mr. B. S. Ramakrishna has recently taken the preliminary examinations for the Ph. D. degree. In the mathematics examination he was graded A. This is our highest grade and it indicates that his work in mathematics has been of very high order.

Yours truly,

Lester R. Ford

Lester R. Ford
Chairman, Department of Mathematics

March 25, 1948

Educational Liason Office for India
2111 Massachusetts Avenue
Washington, D.C.

Gentlemen:

Mr. Ramakrishna has asked me to write you concerning his aptitudes and concerning the evaluation of his work by the Department of Physics.

In the opinion of the members of the Department of Physics, Mr. Ramakrishna has a very strong minor. In his comprehensive examination, he showed a real feeling for fundamental theory. In scholarship, we would rate Mr. Ramakrishna very high.

My own feeling is that it has been a real pleasure to know Mr. Ramakrishna and I believe that he has a good future in technical work.

Very truly yours,

Paul L. Copeland

The following is a complete list of the courses and examinations I have taken at the Illinois Institute of Technology:

Department	Course title	Credit hours	Grade	Time
Physics	Vibration and Sound	4	A	Winter1946
Elec.Eng	Advanced Network Theory I	4	B	Winter'46.
Mechanics	Fundamentals of Vibrations	4	B	Winter'46.
Elec.Eng	Radio Engineering I	4	C	Winter'46.
A.R.F.	Preliminary Research Work			Summer'46.
Elec.Eng	Electric Transients	4	A	Fall '46.
Language	Scientific German	2	B	Fall '46.
A.R.F.	Thesis	8		Fall '46.
Elec.Eng	Advanced Network Theory II	4	C	Winter'47.
Elec.Eng	Radio Engineering II	4	D	Winter'47.
Mathematics	Complex Variable I	3	A	Winter'47.
Mathematics	Partial Differential Equations	4	Audit	Winter'47.
Elec.Eng	Ultra High Frequency I	4	D	Winter'47.
Elec.Eng	Ultra High Frequency II	4	A	Summer'47.
Elec.Eng	Communication Circuits	4	A	Summer'4
Mathematics	Complex Variable II	4	B	Fall '47.
A.R.F.	Thesis	8		Fall '47.
A.R.F.	Thesis	16		Winter'48.

Examinations taken for the Ph.D comprehensive:

Foreign Language	German	B	Winter'47
Major	Elec. Engineering	A	Feb '48.
Minor	Mathematics (including Advanced Calculus from India).	A	Jan '48.
Minor	Physics (including Spectroscopy and Statistical Mechanics from India).	A	Jan '48.

Oral Examination covering Elec.Eng.,Math.,Physics. Declared successful by the examining committe. March '48

2

EPH/C2

57

33

Cpro 32538 C2/48

Letter To

Ref. 32538/48-3 C2-Edn of 9.6.48

The Secy to the Govt of I
Ministry of Edn, New Delhi-3

Sir,

Ref. Your letter no. F.3.11/S.22/45-OD IV of 29.4.48 and 13.5.48 re. Sri B.S. Ramakrishna, 1945 scholar.

I am directed to state that the scholar may be asked to return after completion of his present course of training. This Govt have therefore no suggestions to offer regarding the scholar's further training.

YO

Copy to the D I a w.r.t his 1523 C3/47 of 30.5.48

54

p9 cf.

p1 cf

p11 cf

8.6.48

8.6.48

9/6/48

Note: In view of the difficulties in arranging

58

practical training for the scholar, the Govt. of I favour his return to India after completion of his present course of work i.e. in Sep 48. The D.I.&C. agreed to this proposal. The scholar was granted an extension in the period of scholarship from Jan 48 to Sep 48.

p1 Cf

p9 Cf

8.6.48

8.6.48

9/6/48

C.N 59

Co. 482 Edn 11.3.48

34

ASST. SECRETARY TO GOVERNMENT, EDUCATION AND PUBLIC HEALTH DEPT.
8 - JUL 1948

NO.F.3-11/S.22/45-ODIV.
Government of India,
Ministry of Education,
New Delhi 3, the 6th July, 1948.

From

Dr. Tara Chand, M.A., D.Phil. (Oxon),
Secretary to the Govt. of India.

To

The Secretary to the Govt. of Madras,
Deptt. of Education & Public Health,
MADRAS.

SUBJECT: Scholarships for Advanced Studies Overseas - Reports in respect of Provincial Govts. sponsored scholars in the U.S.A.

50488

Sir,

pp 2-3 infra

I am directed to forward herewith for the information of the Provincial Govt. a copy of a further report and Information Sheet in respect of Mr. B.S. Ramakrishna the 1945-46 Govt. of Madras sponsored scholar.

p3 infra

N/42 Cf

2. With regard to remarks under column 8 on the Information Sheet, an early reply is requested to this Ministry letter of even number, dated the 29th April, 1948.

Co. 482 Edn 11.3.48

Yours faithfully,

(K.P. LUKOSE)
for Secretary.

&THAKUR.1.

61 35

"TRUE COPY" File No. G 263/45

Illinois Institute of Technology

Chicago, Illinois.

Supplement to:

Official transcript of the record of BASAVA RAMAKRISHNA,

1414 E. 59th St. Chicago, Illinois.

Admitted March 1946 from Benares Hindu University.

Status -- In good standing.

Year	Dept. & course no.	Descriptive title of course	Sem.Hrs.	Grade
1st. Sem. 1947-48	Math.505	Complex Variables	4	B
	EE 591	Research & Thesis	8	1

Marking system.

A - Excellent

B - Good

C - Fair

D - Poor (Passing.)

I - Incomplete

E - Failure

Beginning September 1941 a change was made to the semester system.

The unit of credit is the semester hour.

(signed) C. S. Hubard - Recorder.

"Average" A. M. D'Rozario

Deputy Educational Liaison Officer.

27/4/48

FORM X

26

MAY 6 1948

ALL GOVERNMENT STUDENTS STUDYING IN THE UNITED STATES AND CANADA

NOTE: You are required to complete this form in quadruplicate and return urgently, addressed to Educational Liaison Officer, not anybody by name. The last column is not to be completed.

for Deputy Educational Liaison Officer

NAME B.S.Ramakrishna. Our Reference No. G263/45

Sponsored by the Madras Government

1. Sponsored/ Deputationist	2. Subject for which admitted	3. University where admitted	4. Specific Course being pursued	5. Degrees, if any, to be awarded at end of Course	6. Date of Commencement of Course	7. Estimated duration of Course	8. Remarks, if any
63 Sponsored by Madras Government	Acoustics (in the Department of Electrical Engineering).	Illinois Institute of Technology, Chicago, Ill.	Courses and Research work pertaining to Acoustics from the departments of 1) Mathematics, 2) Physics and 3) Electrical Engineering	Ph.D (in Electrical Engineering)	March 1946	2½ years (* This period also includes the time spent on Industrial Research work with the Armour Research Foundation.	The Provincial Govt. should intimate whether or not they approve of the programme being followed.

12/5/48

DR. A. M. D'ROZARIO
Deputy Educational Liaison Officer

64

65

EP: C2

(37)

C. No. 50488 C2/48

2/ 13/7 Despatched a copy to ~~for~~ 15/7/48

Letter / Ref. 50488/48-1 C2-Edn of 12 7/48

The Secy to the Govt of India
Ministry of Edn.
New Delhi-3. (with enclosure)
copy of p 57 C.f of (sic).

Sir,

Ref. your No. F.3-11/5-22/45.OD IV of 6.7.48 re Mr. B.S. Ramakrishna 1945 scholar.

With ref to para 2 of the letter cited I am directed to invite your ~~letter~~ attention to my letter No 32538/48-3 C2-Edn of 9.6.48 (copy enclosed).

Y.f.

p 1 C.f

p/57 C.f

10.7.48

12/7/48

Note: No remarks are called for with

~~-2-~~ 66

ref to para 1 of the letter on p 1 C.f.
After issue of the draft overleaf,
the papers may be filed with (N).

10.7.48

12/7/48

67

by Air

(38)

Asst. Secretary to Government
4 AUG 1948
Education and Public Health Dept.

No.F.3-11/S-22/45 OD IV
GOVERNMENT OF INDIA
MINISTRY OF EDUCATION

NEW DELHI 3, DATED THE 18 July 1948.

58001

From:
D. Tara Chand M.A., D. Phil
Secretary to the Government of India

To : H.E. The Ambassador for India
Education Department, 2111 Massachusetts
Avenue N.W.,
WASHINGTON. D.C.

Subject:- Advanced Studies Overseas in respect of Mr. B. S. Ramkrishna 1945-46 Madras Government sponsored Scholar.

Sir,

In continuation of this Ministry endorsement of of even no. dated 29th April 1948 on the above subject I am directed to state that the Government of Madras desire that the scholar should return after completion of his present course of ~~stu~~studies. They have no further suggestions to offer regarding his further training.

Yours faithfully,

Sd/- K. P. Lukose
for SECRETARY.

Copy to the Secretary to the Government of Madras Education and Public Health Department, Madras with reference to his letter no. 32538/48-3 C.2 Education dated 9.6.1948.

By Order.

for Secretary.

Notes

Overseas Scholarships – 1945-46 – Messrs B.S. Ramakrishnan & G.S. Ramasamy – Extension in the period of Scholarships

(39)

C.No. 5399er, From the G of I, No. F.3-11/45-OS IV d/ 21-1-48

Pl. see the letter from the G of I and its enclosures on pp 1-29 CF. Mr B.S. Ramakrishnan is a Scholar selected in 1945-46 for advanced studies in "Applied Physics - Sound Technology Acoustics and Recording" and is intended, after completion of studies, for absorption in Industries (Govt. and Private Enterprise). Dev. Dept may be requested to state in consultation with the D.I&C., if necy whether the extension proposed can be granted. Mr G.S. Ramaswamy, also 1945-46 Scholar, is undergoing advanced studies in "Civil Engg. Structural Engg." and is meant, after completion of studies, for absorption on the Staff of the Govt. Engg Colleges. The DPI may be consulted whether Mr Ramaswamy may be granted the extension of studies now proposed.

X

A

Y

+ A draft Endt ~~memo~~ is submitted on p 30 CF for approval. After issue, the file may be sent to Dev. for remarks with ref. to their scholar.

+ Issued - p 3 CF

ES 23/1/48

26/1/48

S 26/1/48

26.1.48

Dev.

Edn no 5399 er/48-2 27/1/48

11152 DI/48 27.1.48

To AS

pp 1-21 cf

DEV. DEPT

The letter from the G. of I and its enclosures at pp 1-21 cf and the notes of the E&PH Dept above may be perused. With regard to 'A' above

2

the D I & C may be consulted. Subject to orders a draft memo to the D I & C is submitted below for approval.

Vn 27.1.48 28.1.48

CPP 28.1.48

[Issued as Memo No 11152-DI/48-1 d. 28.1.48] p 31 cf

[From the D I & C No 1523 C3/47-d 9.2.48] p 34 cf

To AS

Please see the memo issued to the D I & C at p 31 cf and the reply received from him at p 34 cf. The recommendation of the D I & C may be accepted in this Dept and the file returned to E&PH for further action

p 31 cf

p 34 cf

'A' on p 34 cf

P

CPP 11.2.48

E&P.H. (C2)

E&PH

Vn 11.2.48 11/2/48

Dev. U.O. No 11152-DI/48-3 11.2.48

Pl. see the recommendations of the DPI and the Jt D. I & C. on pp 33 and 34 CF. Dev. Dept accept the recommendation of the Jt D I & C. in respect of their scholar Mr. B. S. Ramakrishnan. This Dept may agree with the recommendation of the DPI that Mr. G. S. Ramaswamy's Scholarship may be extended upto June '48 to enable him to obtain the Professional Degree in Civil Engg at the California Institute of Technology. It is presumed that the G.I. will, as usual, share half the cost of the scholar's training during this period also. A draft letter is submitted for approval. Fin. may see before circulation

p 34 cf

p 33 cf

Q

P on p 3 cf

ASST. SECRETARY TO GOVERNMENT
1047
17 FEB 1948
EDUCATION AND PUBLIC HEALTH DEPT.

ASST. SECRETARY TO GOVERNMENT
9313
14 FEB 1948
FINANCE DEPARTMENT

ES 13.2.48

13.2.48

13/2/48 S/7

Edn. U.O. 5399 Cr/48-4 14.2.48

3

Finance E III

Please see the notes of E.P.H. and Devt. from p1 above. The proposal in the file is to extend the period of scholarships, beyond the normal period of two years, in respect of the following candidates for the terms noted against each

Candidate	Period of extension
(1) Sri B. S. Ramakrishnan, a scholar selected in 1945-6 for advanced Studies in "Applied Physics – Sound Technology Acoustics and Recording" and sent to U. S. A.	From January '48 to September 1948 (nine months)
(2) Sri G. S. Ramaswamy, a candidate selected in 1945-6 for advanced Studies in "Civil Engineering – Structural Engineering"	From January 1948 to June 1948 (ie) for six months (para 3, p1-2 CF)

X on p1 above

Y on p1 above

2. Sri B. S. Ramakrishna is intended to be absorbed in Industries (Govt and Private Enterprise) on his return from overseas studies. The Joint Director of Industries and Commerce and the Devt. deptt. agree to the proposed extension of the period of scholarship for nine months in order to enable the candidate to complete the Ph. D. degree in Electrical-Engineering-Sound Technology at the Illinois Institute of Technology, U. S. A. ~~This deptt. may also~~ It is also proposed to ask the Govt. of India to arrange practical training for the scholar during the period of extension. This deptt. may agree to the proposals.

p1 above

p 34 CF + P on p2 above

para 2, p1 CF

para 4 of draft letter below

3. Sri G. S. Ramaswamy is intended to be absorbed in the staff of the Govt. Engineering Colleges on return from his overseas studies. The Director of Public Instruction and the E.P.H. deptt. agree to the proposed extension of the period of scholarship of the candidate by six months in order to enable him to take the Professional Degree Course in the Civil Engineering at the California Institute of Technology, U.S.A.

p1 above

p 33 CF + Q on p2 above

para 3, p1-2 CF

3.

In the circumstances explained in para 3 of the letter from the Govt. of India in para 3 on pp 1-2 CF, this dept. may also agree to the proposed extension of the period of scholarship of the candidate.

4. It is estimated generally that the cost involved in the overseas studies of each candidate under the overseas scholarship scheme will be Rs 571 per mensem during periods of extension. ~~[illegible]~~ The extra cost involved in the periods of extension proposed in this file will be Rs 8565/- half of which will be borne by the G of I. In a separate file E.P.H have estimated that the extra cost involved in the period of extensions of scholarships so far sanctioned, is about Rs 92,000.

(Separate file in E.P.H not put up)

571 (9+6)
= 571×15 = 8565

Separate file in EPH (not put up)

5. The draft letter below may be accepted and the case returned to E.P.H. H.M (Fin) may also see the draft before issue.

Ns.
14.2.48

MR
15/2/48

DST

ASST. SECRETARY TO GOVERNMENT
16 FEB 1948
11167
EDUCATION AND PUBLIC HEALTH DEPT.

E.P.H (C2)

Fin No 9315 E III-1
15.2.48

The file may now be circulated to H.M (Edn), H.M (Ind) and H.M (Fin)

ES
16-2-48

16.2.48

VSM
16/2/48

S. A. G.

16/2/48

H.M. (Edn) ✓
H.M. (Ind) ✓
H.M. (Fin)

TSA
16.2.48

17/2

17.2

16/2

(Issued as Lr No. 5399 C2/48-5 Edn d 18.2.(48)
From the G of I, No. F.3-11/45-OD IV d 28.2.48

pp 39-40 CF

p 41 CF

SECRETARY, EDN. AND P. H. DEPT.
18 FEB 1948
GOVERNMENT OF MADRAS

The Endt. from the G of I on p 41 CF may be perused. No further action is called for on the papers. They may be recorded.

G.O. Ms. No 482 Edn d 11/3/48.
Recorded

2878
11/3

Sub Tech Edn Overseas – 1945-46 – Messrs B.S. Ramakrishnan and G.S. Ramasamy – Extension in the periods of scholarship – granted – papers – Recorded

ES
9/3/48

8.3.48

BY AIR MAIL

No. F.3-11/S-22/45-S.2.
GOVERNMENT OF INDIA.
MINISTRY OF EDUCATION.

ASST. SECRETARY TO GOVERNMENT
24 SEP 1948
EDUCATION AND PUBLIC HEALTH DEPT.

NEW DELHI 3, the 21st September, 1948.

From

Dr. Tara Chand, M.A., D.Phil.,
Secretary to the Government of India.

T
71068

To

The Secretary to the Government of Madras,
Education and Public Health Department, MADRAS.

G.O. 482 Edn
11.3.48

SUBJECT: ADVANCED STUDIES ABRAOD IN RESPECT OF MR. B.S.RAMAKRISHNA 1945 MADRAS GOVERNMENT SPONSORED SCHOLAR.

Sir,

N/41 cf
p 5 infra

In continuation of this Ministry endorsement No.F.3-11/45-O.D.IV dated the 28th February 1948 on the subject mentioned above, I am directed to forward herewith an application for further extension of scholarship and Employment forms in respect of Mr. B.S. Rama Krishna 1945 Madras Government sponsored scholar for "Sound Technology Accous-tics".

p 13 infra

N/39 C.f.

It would be recalled that Mr. Ramakrishna was granted an extension in the period of his scholarship by nine months from January 1948 to September 1948, in order to enable him to complete the Ph.D. in "Electrical Engineering - Sound Technology" at the Illinois Institute of Technology. The scholar has applied for a further extension of scholarship by three months for completion of his thesis. This Ministry is however, inclined to agree to his scholarship being extended by two further months upto the 27th November 1948 as recommended and since confirmed by the Indian Embassy Washington. You may kindly intimate this Ministry your decision in the matter. It may be necessary to grant a further extension of one month as recommended by the University authorities and you are kindly requested to agree to this extension in ~~xxxxxx~~ principle if such a necessity arises.

An immediate reply is requested, preferably by telegram as Mr. Ramakrishna's extended period of scholarship expires in September 1948.

Yours faithfully

M Ram

for Secretary

42

COPY

B.S. Ramakrishna
International House
1414 East 59th St.
Chicago 37, Ill.

July 7, 1948

The Educational Liaison Officer for India
2111 Massachusetts Ave. N.W.
Washington 8, D.C.

Subject: Application for Extension of Scholarship from September 31 to December 31, 1948.

Dear Sir:

I have already brought to your attention that my thesis work requires two to three months more beyond September, when my present scholarship expires. I am enclosing herewith a full statement of the details you are likely to consider important in granting the further extension requested. In support of my application for the extension of the period of my scholarship till December 31, 1948, the observations of the director of my work at the Illinois Institute of Technology are being sent in a separate letter during the course of this week. I request you to take the necessary action at an early date.

5 mfm

pp 9-11 mfm

Yours sincerely,

B.S. Ramakrishna.

B. S. Ramakrishna

COPY

L NAME OF CANDIDATE Basava Sri Ramakrishna

SPONSORING GOVERNMENT Madras government

YEAR OF SELECTION 1945

DATE OF ARRIVAL IN THE UNITED STATES December 28, 1945

DATE OF JOINING THE UNIVERSITY March 1946

DATE BY WHICH THE TWO YEAR PERIOD OF STAY IN U. S. WAS COMPLETED December 28, 1947

DATE OF APPLICATION FOR THE FIRST EXTENSION September 29, 1947

DATE OF EXPIRING OF EXTENSION ALREADY GRANTED September 31, 1948

HOW MUCH LONGER IS EXTENSION NECESSARY? December 31, 1948

WHAT WOULD BE ACHIEVED IF EXTENSION IS GRANTED: Ph.D. in Electrical Engineering (
specialization in acoustics). Also training along practical lines: Mention has al
been made of the confidential work on vibrations (sponsored by the U.S. Airforce)
I have been doing since April 1948. My thesis itself is a problem of industrial
tance carried under the sponsorship of the Armour Research Foundation.

WHAT HAS BEEN DONE SINCE LAST EXTENSION WAS GRANTED: As already an up to the da
of the work done by me was given in connection with my earlier application for
in September, 1947, only the work done since the last extension was granted is

I passed the final comprehensive examination admitting me to candidacy fo
degree, which includes written and oral examinations in my major field of Elec
Engineering, and minor fields of Mathematics and Physics, and was graded "A"
three fields. A complete report together with the departmental remarks have
in April 1948. The major portion of my time since then is being devoted to
work in Electro-acoustics under the sponsorship and supervision of the Armou
Foundation. I am also preparing at present a technical paper for publicati

I may, perhaps, add that I have been elected a member of the followin
and Engineering societies: 1) Sigma Xi, 2) Tau Beta Pi, 3) Eta Kappa

4

COPY

n the practical side I have been working on a vibration project sponsored by the Airforce, which is a rare opportunity since it enables me to part-take in nfidential work of great importance.

WHAT PLANS ARE BEING MADE TOWARDS COMPLETION OF THE WORK, AND HOW THE PERIOD OF EXTENSION WOULD BE SPENT. The rest of the period would be spent in completing the thesis work required for the award of the Doctor's degree, and in obtaining a coordinated survey of the various applications of acoustics to science and industry. This is especially important in a rapidly growing science like acoustics with applications to divorce fields like radio, electronics, architecture etc. I shall consequently make every attempt to obtain a broad survey of the entire field of acoustics.

I request therefore, that this additional extension of three months from September 31, to December 31, 1948 may be granted so that the last phases of my work be satisfactorily completed.

A copy of student's letter of 29/6/48 is enclosed. In this letter, he says that he requires two or three months' extension. A copy of Dean Lewis' letter dated 9/7/48 is also enclosed. Dean Lewis' recommends extension till 31/12/48. No further communication from Dean Lewis has been received. Mr. Ramakrishna has been given 9 months' extension. His progress has been excellent as his Professor's remarks on the employment forms sent to Ministry of Education would show. Extension recommended for two months, i.e. till 27/11/48. As a very special case, extension may be granted to this student.

A.M.D'Rozario
Deputy Educational Liaison Officer

14/8/48

8

COPY

9

45

ILLINOIS INSTITUTE OF TECHNOLOGY

TECHNOLOGY CENTER, CHICAGO 16

July 9,1948

Dr. B.K.Byram,
Educational Liaison Officer,
Embassy of India,
2111 Massachusetts Ave., N.W.,
Washington, D.C.

Dear Dr. Byram:-

Mr. Basava Sri Ramakrishna has requested that an extension be granted to his scholarship to extend the termination date from September,1948 to December 31,1948. Mr. Ramakrishna has been working on a thesis for the degree of Doctor of Philosophy, which involves many ramifications, and requires a certain amount of time for digestion of the work done before proceeding. It is now evident that the work of the thesis can not be completed by September, and an extension such as he has requested will be necessary if he is to complete the program for the degree. On this basis, I recommment strongly that the textension be granted if it is possible.

Mr. Ramakrishna has been supplementing his academic work with some practical experience in research on a problem of interest to the Armed Forces through the activities of the Armour Research Foundation. This work has been beneficial to his educational development, and rounds out the general program of his thesis. I have flet that this was a desirable addition to his training and am therefore glad he has undertaken this problem.

A careful review of the progress on the thesis will be made later this month when Dr. Whitehead, Director of the Department of Electrical Engineering, returns from his vacation. If this review produces any different recommendation, I will notify you at once. However, I expect that the review in the thesis progress will support the recommendation made above, that the scholarship be extended for a minimum of three months if this is possible.

With kindest regards, I am.

Yours sincerely,

W.A.Lewis (Signed)

W.A.Lewis, Dean
of the Graduate School

Copy to Dr. Whitehead.

COPY

B.S.Ramakrishna,
372 International House,
1414 East 59th Street,
Chicago 37, Ill.

June 29th,1948

46

The Educational Liaison Officer for India,
2111 Massachusetts Ave. N.W.,
Washington, D.C.

Dear Sir,

I should like to bring to your attention that my thesis work for the Doctor's degree in Electrical engineering is likely to require about two or three more months of work beyond September 1948 up to which I have been granted extension according to my request made ih August 1947. I shall greatly appreciate if you can extend my schlarship till the end of this year to complete my thesis work and the practical training I am receiving simultaneously.

I shall make a regular request supported by the departmental heads conconcered on the prescribed forms, if any, on receiving the same from you. I trust this letter will be given your early attention.

Yours sincerely

B.S.Ramakrishna.

12 11

EPH
C2

(47)

Telegram.

Educind New Delhi.

Your F.3-11/S.22/45.S2 dated 21st regarding fortyfive scholar B.S. Ramakrishna aaa Extension agreed for two months aaa Agreeable to further extension for one month if absolutely necessary.

Edhealth.

Post copy to the Secy to the G. of I., Ministry of Edn. New Delhi-3.

p.e. dated 10/10

Issd
28.9.48

Telegram

Educind New Delhi.

Your F.3.11/S.22/45-S2 dated 21st regarding fellow scholar B.S. Ramakrishna extension request for two months. Agreeable to further extension for one month if absolutely necessary.

Educind.

Post copy to the Secy to Govt. of India, Ministry of Education, New Delhi.

CABLE

CORW

STATE

INDEMBASSY

WASHINGTON

98

ASII

C2

No. F.3-11/S-11/45-S.2. REFERENCE YOUR LETTER G263/45 AUGUST FOURTEENTH REGARDING EXTENSION OF SCHOLARSHIP OF 1945 MADRAS SPONSORED SCHOLAR B S RAMAKRISHNA AAA EXTENSION FOR TWO MONTHS UPTO TWENTYSEVENTH NOVEMBER FORTYEIGHT SANCTIONED AAA

78517

EDUCIND

Post copy in confirmation by Air Mail to His Excellency the Ambassador for India in the United States of America Education Department, Indian Embassy, Washington D.C.

Copy forwarded to the Secretary to the Govt. of Madras, Education and Public Health Department, Madras with reference to his telegram No. nil dated the 9th October, 1948.

By Order

for Secretary
GOVERNMENT OF INDIA.
MINISTRY OF EDUCATION.

NEW DELHI [illegible] the October, 1948.

(KARTAR) 10/10.

EPH
C2

Gro 71068 C2/48

Advanced Studies Overseas - 1945 Scholar Sri B.S. Ramakrishna. further extension.

from the G of I. Ministry of Edn.
p 1 cf No. F.3-11/S.22/45-S.2 of 21.9.48

Sri B.S. Ramakrishna is a scholar selected in 1945-6 for advanced studies in "Applied Physics - Sound Technology, Acoustics and Recording" and is intended for absorption in Industries (Govt & Private enterprise) on return. He has already been granted extension in the
N/39 cf period of scholarship for 9 months from Jan '48 to Sep 48 in order to complete Ph.D. Course. He has now applied for further extension for 3 months
pp 3-7 cf till the end of Dec 48 to complete his thesis work
p 11 cf and practical training. The Professor under whom
p 9 cf he is working has strongly recommended it.
p 7 cf The Edl Liaison Officer has recommended extension for 2
p 1 cf months and the G of I have agreed with him. The G of I, however, feel that it may be necessary to grant a further extension for one month and
p 1 cf has requested this Govt to agree to this extension in principle if such a necessity arises.

This Govt considered it desirable from the point of view of the scholar's employment on return that he should also ~~undergo~~ have extensive
N/40 cf practical training alongside his research work. Though the G of I had stated that it was ~~not~~ most difficult ~~possible~~ to arrange for practical training, the
N/42 cf scholar has been able to secure it and the present extension applied for is stated to be to
p 11 cf complete the practical training also.

The G of I may be informed that this G

2

(50)

agree to 2 months' extension till 27.11.48 and are also agreeable to a further extension for 1 month if it is absolutely necessary.

'A'

The remarks of Dev & Fin may be invited before circulation.

Dev may be requested to detach the employment forms from the C.F. for necessary action.

24.9.48

24/9/48 S

Edn no. 71068 C2 '48.1
24.9.48

Dev.

Dev.

Dev. may agree to 'A' above.

The employment forms have been removed for further action

CPP
25.9.48

J S

25/9 Fin

Secy

Please detach the employment forms and take further action

CPP
25/9

25/9

Finance (E III)

Please see the note of E.P.H on pp1-2 above. Their proposal at 'A' above, may be agreed to in this deptt.

28.9.48

28.9.48

28/9/48 EPPH
C2

Dev no 103262(A) DI/48-1
25/9/48

A draft telegram to the GoI is submitted for approval. It may be circulated to H.M (Edn), H.M (Ind) and H.M (Fin) for approval.

28/9/48 S

28/9/48

H. (Ed)

H. (Ind)

H. (Fin)

FIN.U.O. 87960 A/E III-1
28.9.48

ASST. SECRETARY TO GOVERNMENT
28 SEP 1948
EDUCATION AND PUBLIC HEALTH DEPT.

29/9

72276

TSA
4.10.48

HSM
4/10

7.X

Issue telegram
9/10/48