

E & P.H. (194 9 ) Department.

SERIES.

closed  
Aug

G.O. NO. Ms.3308 Education.

Dated 29th October 1949.

9

---

[Despatch Abstract.]

Overseas Scholarships 1945- '6 Sri l, Vasudevan - Papers relating to his studies -

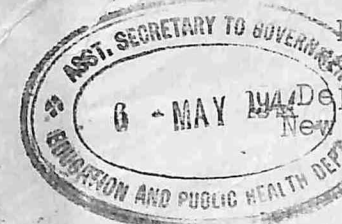
Recorded -

### Back Papers.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
|------|-----|-------------|-------|------|-----|-------------|-------|
|      |     |             |       |      |     |             |       |

### Further Papers.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
|------|-----|-------------|-------|------|-----|-------------|-------|
|      |     |             |       |      |     |             |       |



No.F.3.11/45 O.D.IV.  
Government of India,  
Department of Education,  
New Delhi 3, the 29<sup>th</sup> April, 1947.

#### MEMORANDUM

Subject:- Advanced Studies Overseas in respect of  
Mr. M. Vasudevan- 1945 Scholar.

The undersigned is directed to refer to the  
previous correspondence on the above subject and to  
forward herewith a copy of a letter from Professor Alfred  
S. Niles, dated the 17th March, 1947, received through  
the Office of the Indian Embassy in Washington.

The Government of Madras may kindly consider  
the matter and communicate their decision to this  
Department at an early date.

*M. H. Rahman*  
For Secretary.

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

*Mrs 6/5*

SRH/-



C  
O  
P  
Y.

STANFORD UNIVERSITY

Guggenheim Aeronautic Laboratory.

Stanford University, California.

March 17, 1947

Mr. A. S. Grewal  
Deputy Educational Liaison Officer  
Embassy of India  
635 F Street N.W.  
Washington, D.C.

Dear Mr. Grewal:

Mr. M. Vasudevan has brought to my attention your letter G370/45 of February 8, 1947, regarding his programme of study in this country. I regret that I cannot find your letter to me of December 23, and will have to write without having it before me.

It appears to me that there are two major questions:

- a. What theoretical training should Mr. Vasudevan obtain and where can he get it?
- b. What practical training can Mr. Vasudevan obtain and how can he get it?

2 The answers to both questions depend to a large degree upon what Mr. Vasudevan will be expected to do upon his return to India. From what he has told me I understand that he will be expected to teach the application of structural theory and related subjects to airplane design, and that he may also be expected to develop a structural testing laboratory in which to carry on research and supplement his theoretical instruction with practice in physical testing. I suspect that he will also be expected to be competent to act as a consultant to Indian airplane manufacturers with respect to problems of airplane construction. In short, he will be expected to have become an aeronautical engineer competent to teach his profession to others.

3 Mr. Vasudevan will have no difficulty in obtaining the theoretical background required to obtain that objective. He is an excellent student and the universities of this country offer the courses needed. The extent of aeronautical engineering is too great, however, for him to complete his theoretical studies in the time required to obtain a Master's degree such as that for which he is working at the present time. He should continue for at least one additional year to obtain the degree of Engineer, and it would be better if he took two more years of work and qualified for the Ph. D. During these extra years he should study advanced theoretical mechanics, thermodynamics, and mathematics, as well as the more advanced topics in airplane design that cannot be included in the work for the Master's degree and should also do some supervised research. Whether he should spend these additional years at Stanford or complete his studies at other universities is an open question. The advantage of the latter course would be that he would come into contact with more instructors and be exposed to more varied points of view. The M.S. for which he is now working would qualify him to obtain and hold a position as a junior engineer in an American airplane manufacturing company, but it is not intended to certify the completion of a training adequate for teaching aeronautical engineering in a university.

4 The question of practical training is the difficult one. When a student graduates from an engineering school, even though he has obtained a Ph.D. he is not yet an engineer, but must still pass through the stage equivalent to the internship of medical graduate. During this stage he should be called an "engineer-in-training", a term coming into rather general use by boards of registration for engineers. In those states which require registration of

engineers



4

engineers, such a period of work, subsequent to graduation from an engineering school, is required before a candidate is permitted to take an examination and be licensed as an engineer. Usually the minimum period is two years, and in California at least, time spent in graduate study cannot be counted. The two years must be spent in engineering practice as an assistant to a licensed engineer. The function of this period of serving as an engineer-in-training is exactly the same as that of the medical student's internship. The chief difference is that the medical student normally serves his internship in a hospital and follows a fairly well standardized programme which is usually designed and administered by a medical school. The work of the engineer-in-training is seldom so well organized (except in a few companies) and is entirely outside the influence or control of the school from which he graduated. The important point I wish to make here is that no man can be considered to have become an engineer until he has completed his experience as an engineer-in-training, and that cannot be done while he is still at this or any other university.

5 If Mr. Vasudevan is to be an aeronautical engineer when he returns to India it is necessary that he find some way to serve as an engineer-in-training. If he is to teach aeronautics, and particularly if he is to try to supervise the development of new designs that may be in competition with imports from countries with well developed aeronautical industries, or if he is to try to act as a consultant on practical design problems, such experience will be essential. It will, however, be necessary for him to receive considerable assistance from his government if he is to get this experience.

6 Due to the confidential nature of much aeronautical engineering work it is very difficult for a non-citizen to obtain work in the American aeronautical industry. All companies working on U.S. government projects (and that means all of the important ones) are prohibited from hiring aliens except by special permission. It is hard enough to find companies willing to take native Americans students for summer work. When the necessity of obtaining special permission from the U.S. government is involved, most companies refuse to make the effort. The result is that we can get employment for alien students only as a favour from personal friends strategically placed in the industry, and experience has shown that it is useless to request such favours unless the student involved can get a clearance to work in the industry. In the case of Mr. Vasudevan, Professor Reid and I have tried to get him located with at least five companies, and have run up against this difficulty in every case. I feel that if the Government of India wants Mr. Vasudevan to return to India qualified to teach aeronautical engineering in that country, that government will have to arrange for a clearance which will allow him to accept any offer of employment which we can persuade our friends in the industry to make. Since jobs are getting harder to find it may even be necessary for your government to go to the extent of paying some airplane company a subsidy for allowing Mr. Vasudevan to work in their organization while going through his period as an engineer-in-training. I hope, however, that if you can get him a clearance, we can find him a job. But I feel that I have done as much toward getting him a job as I can until some kind of clearance is forthcoming.

7 I wish that one of the airplane manufacturers had a definite programme for engineers-in-training for which I could recommend Mr. Vasudevan. Unfortunately I know of none, and all I can hope for is to get him a job with a company that gives its young engineers diversified work, or, if we can get two or more offers of work for Mr. Vasudevan, to help him pick the best.

8 So far our efforts to get work for Mr. Vasudevan have been directed toward the airplane manufacturing companies. If he is expected to set up or run a testing laboratory after he returns to India, it might be better for him to spend his time as an engineer-in-training working in a testing laboratory such as that of the National Bureau of Standards in Washington, or the Langley Memorial Laboratory of the N.A.C.A. at Langley Field, Virginia. Normally positions in those laboratories are filled by civil service appointees who are citizens, but your government might make arrangements through which he

could



6  
-3- 681 (40) 1  
could get experience in one of them. I mention this because I recently had a talk with a Chinese who had been working at Langley Field and was on his way to China. I am not sure, but I believe he is a Chinese citizen. If he is, and had been employed at the N.A.C.A. laboratory at Langley Field, it seems possible that you might be able to arrange for the employment there of an Indian citizen. If that should prove possible, it would probably be the best solution of Mr. Vasudevan's problem.

9 I have written this at some length because it has seemed to me that you have been suffering under a misconception of the situation in which Mr. Vasudevan finds himself regarding the practical side of the training he needs, and he is such an able student that I want him to be able to spend his time in this country as profitably as possible.

10 In conclusion, you will be interested in knowing that, at the suggestion of Professor Reid and myself, Mr. Vasudevan will spend the week from March 24 to 29 in Southern California visiting airplane factories. He made such a trip between the autumn and winter quarters, but found that several of the plants he had hoped to visit were closed for the holidays. He now hopes to visit some of the plants that were then closed, taking advantage of the vacation between the winter and spring quarters. Professor Reid and I are providing him with letters which we believe will open the doors of those plants to him.

Very truly yours,

(sgd) Alfred S. Miles  
Professor of Aeronautic Engineering.





Education and Public Health  
Department (C2)

2/12/47  
2/5  
Endorsement No. 38578 C2/47-1 Edn dt. 12-5-47

Referred to the Director of Public Instruction for early remarks. Sri M. Vasudevan is one of the candidates sponsored by the Government in 1945-46 for undergoing advanced courses of studies in "Aeronautical Engineering - Aircraft structures and aircraft design". After satisfactory completion of training abroad, the candidate is intended to be absorbed in the teaching personnel in Government Engineering Colleges.

(By order)

V. Ramaswami  
Assistant Secretary to Government.

TNS  
9.8.47 9/5/47

To  
The Director of Public Instruction,  
Madras.

OFFICE OF THE DIRECTOR OF PUBLIC INSTRUCTION, MADRAS.  
R.C. No.44 C-1/45-61, dated 17.6.47.

SUB: Advanced Studies overseas - Sponsored candidate - Sri M. Vasudevan-1945-46 Scholar - Course of study.

Ref: Endt. No.38578 C.2/47-1 Education, dated 12.5.47. p 8 ante

Resubmitted. p 11 nifon

50749 2. A copy of the remarks of Dr. J.J. Rudra, Principal, College of Engineering, Guindy, dated 30.5.47 on the question of further course of study for Sri M. Vasudevan is submitted herewith and I agree with those remarks.



For Director of Public Instruction.

To  
The Secretary to Government,  
Education and Public Health Department,  
MADRAS.

P.R.18/6.

TNS  
19/6

sd  
18/6



10

COPY OF: Remarks of Dr. J.J. Rudra dated 30.5.1947. (N) //

Mr. M. Vasudevan has successfully completed a course in Aeronautical Engineering of the degree standard at the Indian Institute of Science, Bangalore. It is proposed to appoint Mr. Vasudevan to the teaching post in the Department of Aeronautical Engineering of a College that has been started by the Government of Madras. Mr. Vasudevan would be an Assistant to the Professor of Aeronautical Engineering and will deliver such lectures and perform other duties that would be assigned to him by the Professor. It is not expected that Mr. Vasudevan shall be capable of being a consultant to aircraft factories immediately on his return, although it is hoped that he can do so after many years of experience in Aeronautical Engineering. He is not also expected to develop a structural testing laboratory entirely on his initiative but he will be required to give important assistance to the Professor of Aeronautical Engineering in the setting up of this laboratory.

2. The Government of Madras would like Mr. Vasudevan to do post graduate study in aircraft structures and design and to have training in methods of research. It will be quite enough for him if he goes through a course in the subject in the graduate school and does research of the standard required for the M.Sc. degree.

3. Mr. Vasudevan is also required to have practical training in aircraft factories as an engineer apprentice or as referred to in professor Niles's letter as engineer-in-training. Since it is not possible to place Mr. Vasudevan as an engineer-in-training, there is no objection to his accepting employment in aircraft industries with a view to acquire practical training and experience.

P.R. 18/6.

359  
18/6

(TRUE COPY).

VER *[Signature]*  
FOR DIRECTOR OF PUBLIC INSTRUCTION.



12

65 / 8/7

(10)

Edn. & P.H.

T.M. dt 7.7.47

13 / C2

From  
The Secy, E.P.H. Dept.  
To  
✓ The D.P.D.

Depd  
R  
11/7

Overseas Scholarships - 1945-46 -  
M. Vasudevan - Studies.

ppg-11CF Ref: Your No. H4C1/46-61 dt  
17.6.47.

8822  
11  
7/7/47

Please <sup>State the</sup> ~~Specify the~~ period  
minimum period Sri Vasudevan  
should spend in the U.S.A. for  
undergoing practical training and  
experience, after completing his  
M.Sc. degree Course at the Stanford  
University.

P.G. to go

TBS  
4/7/47

DM  
5/7/47

4/7/47



14

TM

E.P.H.C.2)

from

The Secy, E.P.H.

To The Dir. 9

7  
31/7

Depd  
21/8/47

Overseas Scholarships - 1945-46 -  
M. Vasudevan - Studies.

Ref: Your no. 44 C1/46 b1, pp 9-11 ante  
dt 17.6.41 and my  
T.M. dated 7.7.47. p 13 ante

Immed  
8/8  
30.7.47

Please expedite your  
reply to my T.M. dated 7.7.47.

P.C. to go

TR  
28.7.47  
cus  
29.7.47

MM  
30/7/47

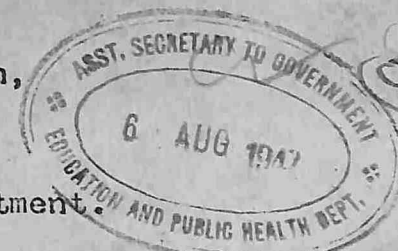
POST COPY OF TELEPHONIC MESSAGE DATED 2nd AUGUST, 1947.

From

The Director of Public Instruction,  
Madras.

To

The Secretary to Government,  
Education and Public Health Department.



REF: Your Telephone Message dated 7-7-1947 regarding  
course of studies - M. Vasudevan - 1945-46 - Candi-  
date undergoing advanced studies in the U.S.A.-

63542

I suggest that Sri M. Vasudevan should undergo practical  
training for 12 months after completion of his M.Sc. Degree course  
at the Stanford University.

for Director of Public Instruction.

Ram. 5/8.

RAM  
5/8



Letter No. 3857802/47-3 (2) EDN. & P.H. DEPT. (C2).  
Edn., dated 27-8-1947.

To

✓ The Secretary to the Government of India,  
Department of Education,  
NEW DELHI 3.

Sir,

OVERSEAS SCHOLARSHIPS - 1945-46 - Mr. M. Vasudevan.

Ref: From the Govt. of India, Edn. Dept., No. F.3-11/45.  
OD. IV dated 29-4-47.

*Madras*  
The Govt. desire that Mr. Vasudevan should do post-graduate study in aircraft structures and design and have training in methods of research. They consider <sup>that</sup> it would be sufficient if he goes through a course in the subject in the graduate school and does research of the standard required for the M.Sc. degree. On completion of his M.Sc. degree course Mr. Vasudevan should have practical training for a period not exceeding one year in aircraft factories ~~as an~~ ~~"engineer apprentice" or as "engineer-in-training"~~. Since it is not possible to place Mr. Vasudevan as an "engineer-in-



-2-

training "this Govt. have no objection to his accepting employment in aircraft industries with a view to acquire practical training and experience. I am to request that the Govt. of India may be so good as to ask the Indian Embassy <sup>at</sup> Washington to arrange for Mr. Vasudevan's studies <sup>on these</sup> ~~as stated above~~ <sup>lines</sup>

Y.O.S.

4/10/47

TMS

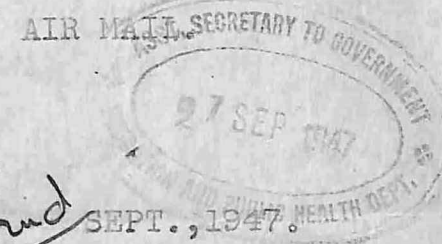
11.8.47

via  
12.8.47

13/8/47

NO.F.3-11/45-ODIV.  
GOVERNMENT OF INDIA,  
Ministry of Education,

New Delhi 3, the 22nd SEPT., 1947.



From

Sir John Sargent, C.I.E., M.A., D.Litt.,  
Secretary to the Govt. of India.

To

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

SUBJECT:

ADVANCED STUDIES OVERSEAS IN  
RESPECT OF M/s- M.VASUDEVAN  
& C.NARASIMHACHARI 1945 SCHOLARS.

Sir,

I am directed to refer to your letter No.38578-C2/47-3-Edn, dated the 27th August, 1947 regarding Mr. M. Vasudevan, and to state that the Government of India regret to observe that even now the Government of Madras have not given an answer to the question raised in paras.2 and 5 of copy of Prof. Alfred S. Niles's letter dated the 17th March, 1947, forwarded under this Ministry's Memorandum of even number, dated the 29th April, 1947. That Government will appreciate that the question of the duration of Mr. Vasudevan's stay in the United States of America will depend on the Madras Government's intentions in respect of utilisation of Mr. Vasudevan's services on his return, either as an aeronautical engineer in the teaching profession or as a consulting expert on practical design problems. Hence I am to request the Government of Madras to intimate their views regarding the scholar's services on his return, urgently, in order to enable the Government

P.T.O.



(2)

of India and the Educational Liaison Officer, at the Indian Embassy, Washington to arrive at a final decision regarding the proposed extension in Mr. Vasudevan's period of scholarship.

I am also to refer to your letter No. 61182-C2/47-3-Edn, dated the 3rd September, 1947 regarding Mr. Narasimhachari's studies and to state that the Government of India agree to the extension in the period of scholarship upto January, 1949, in order to enable him to obtain practical training in the subject. The Educational Liaison Officer at the Indian Embassy, Washington has also been advised of the decision.

I am further to invite the attention of the Provincial Government to this Ministry's Memorandum No. F.2-12/47-ODIV, dated the 8th August, 1947. The Provincial Government will have observed therefrom that decisions on cases of extension are to be arrived at as expeditiously as possible, since the University authorities abroad insist that they should not be kept waiting too long. It may also be noted that such delays involve considerable waste since the scholars do not know what they should do, till the question of the extension is decided.

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

for Secretary.

THAKAR



(2)

of India and the Educational Mission Officer, at  
the Indian Embassy, Washington to arrive at a final  
decision regarding the proposed extension of  
Mr. Vasudevan's period of scholarship.

I am also to refer to your letter No. 6188-  
02/47-3-25, dated the 2nd September, 1947, regarding  
Mr. Vasudevan's extension of his scholarship to  
the Government of India since the extension in  
the period of scholarship upto January, 1949, in  
order to enable him to obtain practical training  
in the subject. The Educational Mission Officer  
at the Indian Embassy, Washington has also been  
advised of the situation.

I am further to advise that the Government of  
Provincial Government to this Ministry's letter No. 1077-  
No. 1-2-12/47-0114, dated the 28th August, 1947.  
The Provincial Government will have observed that from  
that date on cases of extension are to be decided  
at the Ministry as possible, since the University  
authorities have advised that they should not be  
kept waiting too long. It may also be noted that  
such delays involve considerable waste since the  
scholars do not know when they should go, till the  
question of the extension is decided.

I have the honor to be,  
Sir,  
Your most obedient servant,  
For Secretary.

Letter No 38578 Cr 147-4 Edn of 11-20-48  
To  
The Secy to the Govt of India,  
Ministry of Edn,  
New Delhi, 3  
Sir

Sub: Oversea Scholarships - 1945-46 -  
Ref your letter No F. 3-11/45-0114 dated 20-9-47.

With ref. to para 1 of your  
letter cited I am directed to state that after  
the completion of his studies abroad, Mr. Vasudevan  
will be utilised as an Assistant to  
the Professor of Aeronautical Engineering of a Govt  
Engg College. He would be reqd. to deliver such  
lectures and perform other duties as might  
be assigned to him by the Professor. It is not  
expected that Mr. Vasudevan shall be capable  
of being a consultant to aircraft factories  
immediately on his return, although it is hop



(2)

of India and the Consular Mission Office, at  
the Indian Embassy, Washington to arrive at a final  
decision regarding the proposed extension of  
Mr. Vasudewan's period of scholarship.

I am also to refer to your letter No. 6182-  
CE/17-3-BM, dated the 2nd September, 1945, regarding  
Mr. Vasudewan's extension to state that  
the Government of India agree to the extension in  
the period of scholarship upto January, 1946, in  
order to enable him to obtain practical training  
in the subject. The Consular Mission Officer  
at the Indian Embassy, Washington has also been  
advised of the extension.

I am further to invite the attention of the  
Provincial Government to this Ministry's Memorandum  
No. T.2-12/47-ODIV, dated the 8th August, 1945,  
The Provincial Government will have observed that  
the extension on cases of extension are to be decided  
at an exceptionally high level, since the University  
authorities should insist that they should not be  
kept waiting too long. It may also be noted that  
such delays involve considerable expense since the  
scholarship do not flow until they should do, till the  
decision of the extension is reached.

I have the honor to be,  
Sir,  
Your most obedient servant,  
  
For Secretary.

Letter No 38578 CE 147-4 <sup>(M)</sup> Edn of 11-20-45 LDPH (C2)

14/11/45

16/11/45

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

Sub. Overseas Scholarships - 1945-46 -  
Mr. M. Vasudewan

Ref your letter No F.3-11/45-ODIV of 22-9-45.

P/11 CF

With ref. to para 1 of your letter cited I am directed to state that after the completion of his studies abroad, Mr. Vasudewan <sup>the intention is to</sup> ~~will~~ be utilised as an Assistant to the Professor of Aeronautical Engineering of a Govt Engg College. He would be reqd. to deliver such lectures and perform other duties <sup>as might</sup> ~~that would~~ be assigned to him by the Professor. It is not expected that Mr. Vasudewan shall be capable of being a consultant to aircraft factories immediately on his return, although it is hoped



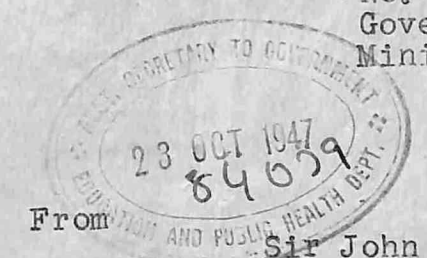
that he can ~~do so~~ <sup>become</sup> ~~after~~ <sup>for</sup> many years of experience in Aeronautical Engineering. He is not also expected to develop a structural testing laboratory entirely on his initiative but he will be required to give important assistance to the Professor of Aeronautical Engg. in the setting up of this laboratory.

~~With ref to para 3 of your letter, I am directed to state that decisions in respect of extension of studies of scholars are taken by this Court as quickly as possible in consultation with the Heads of Depts concerned and that such cases will be decided further more quickly if possible in future.~~

ES  
6-10-47  
Cea  
15.10.47  
19/10/47  
V.O.S.  
M.D.M.

14 C 2

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



New Delhi 3, the 10<sup>th</sup> October 1947.

From Sir John Sargent,  
C.I.E., M.A., D.Litt.,  
Secretary to the Government of India.

To The Secretary to the Government of Madras,  
Education & Public Health Department,  
M A D R A S.

Subject:- Advanced Studies Overseas in respect of  
Mr. M.Vasudevan, 1945 Scholar.

Sir,

I am directed to forward herewith for favour of any action considered necessary, a copy of letter dated 8th September 1947 received from Mr. Vasudevan, regarding his studies at the Stanford University.

I am also to refer to this Ministry's letter of even No. dated 22nd September, 1947, regarding Mr. Vasudevan's case, and to request the Provincial Government to expedite their reply in the matter, so that the question regarding the extension in the scholarship period may be considered without any further delay.

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

B.K. Hingorani  
for Secretary.  
R.N.

pp 27-31  
infra  
pp 19-21 ante



COPY.

M. Vasudevan

109. Lake View Avenue  
Cambridge  
Massachusetts

8th September 1947.

Dear Sir,

I am one of the Government of India students (sponsored by Madras Government) who came to this country in 1945 December. Now that we are free and that our Ministers are our <sup>own</sup> accredited leaders, I thought it is quite proper for us to write to any one of them expressing our views. Hence this letter.

I was selected to study aeronautical engineering, although nothing definite is known about what I am expected to do when I came home, I believe that I will have to do the job of teaching at least for a few years. Whatever may be the work, it is a fact that our country is very poor at technical personnel at aeronautical field especially. So it is quite necessary that some of us should be trained here as experts. Professor Niles of Stanford University (in which I was studying for the last 1½ years) wrote to Professor Sundaram <sup>in</sup> detail what is absolutely necessary for my training here and he also recommended that my stay should be extended for another two years if I am to do something substantial when I came home. Professor Sundaram informed me that he has sent a copy of the letter to the Government of India recommending an extension of my stay here. Nothing so far has been heard <sup>in</sup> reply to that. In this connection I think it is my duty to acquaint you with certain facts. There is prejudice against us in this country and these are against the industrialisation of our country. You know why? From the day I landed here I had been trying hard to get into an air craft factory and work. My profession <sup>or</sup> helped all they could. But no use. Since I am a foreigner I am to be cleared by the army and navy authorities here and it is difficult. Professor

NO. F. 2-11/45. C. D. IV.  
Government of India  
Ministry of Education

New Delhi 8, the 10th October 1947.

From

Secretary to the Government of India  
C. I. E. M. A. D. Litt.  
Sir John Sargent

To

The Secretary to the Government of Madras  
Education & Public Health Department  
M. A. D. R. A. S.

Subject: Advanced Studies Overseas in respect of  
Mr. M. Vasudevan, 1945 Scholar.

Sir,

I am directed to forward herewith for favour of any action considered necessary, a copy of letter dated 8th September 1947 received from Mr. Vasudevan, regarding his studies at the Stanford University. I am also to refer to this Ministry's letter of even No. dated 22nd September, 1947, regarding Mr. Vasudevan's case, and to request the Provincial Government to expedite their reply in the matter, so that the question regarding the extension in the scholarship period may be considered without any further delay.

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

For Secretary.



M. Vasudevan

100, Lake View Avenue  
Cambridge  
Massachusetts

28th September 1947

Dear Sir,

I am one of the Government of India students (sponsored by Indian Government) who came to this country in 1945 December. Now that we are free and that our Ministers are our own accredited leaders, I thought it is quite proper for us to write to any one of them expressing our views. Hence this letter.

I was selected to study aeronautical engineering, although nothing definite is known about what I am expected to do when I come home. I believe that I will have to do the job of teaching at least for a few years. Whatever may be the work, it is a fact that our country is very poor at technical personnel at aeronautical field especially. So it is quite necessary that some of us should be trained here as experts. Professor Miles of Stanford University (in which I was studying for the last 1 1/2 years) wrote to Professor Sundaram <sup>in</sup> detail what is absolutely necessary for my training here and he also recommended that my stay should be extended for another two years if I am to do something substantial when I come home. Professor Sundaram informed me that he has sent a copy of the letter to the Government of India recommending an extension of my stay here. Nothing so far has been heard <sup>in</sup> reply to that. In this connection I think it is my duty to acquaint you with certain facts. There is prejudice against us in this country and these are against the industrialization of our country. You know why? From the day I landed here I had been trying hard to get into an air craft factory and work. My professor <sup>has</sup> helped all they could. But no use. Since I am a foreigner I am to be cleared by the army and navy authorities here and it is a tedious process.

16/29

Sundaram wrote to me it is impossible to get such a clearance. He also tried to get me into the National Research Laboratories <sup>run</sup> by the Government of this country. They politely but firmly refused. I am still trying hard through some of the Chief Engineer and ~~one~~ of them has promised to do his best. But I don't know how far I am going to succeed.

Since practical training in this field seems almost impossible to get here, The next ~~best~~ best thing is to be good at theory and try our bit and miss methods at home. With that view it is that I want to work for a Ph.D. We have none in India who is an expert in Air Craft Structural side. I am taking courses in studies and experimental stress analysis. The latter is the most modern and this country is much advanced. I hope to do some work in it and may be with the help of some of the professors try again to get into firm who are doing research work in this field. There is a great air craft school in Santa Maria, California, where an extensive training is being given to boys in all the fields of Aero Engineering. It is the standard of a College student. So after my Ph.D. if I get a chance of working there as an assistant for a few months, I can utilise the methods to our advantage when I come home.

These are my ideas, Sir. If our Government wants to reap some advantage from the vast technical scheme they have adopted, they have to back up completely and unreservedly some of the students and give them all chances to become experts in a way at least. The Government has to exert pressure on the U.S. Government to allow us to get trained in some of <sup>these</sup> big industries. Just sending a large number and getting them all back after a two years <sup>will</sup> ~~won't~~ do any good. It will be a repetition of the Old English regime and you know what it will result in.



Sundaram wrote to me it is impossible to get such a  
 clearance. He also tried to get me into the National  
 Research Laboratories by the Government of this country.  
 They politely but firmly refused. I am still trying hard  
 through some of the Chief Engineer and one of them  
 has promised to do the best. But I don't know how far I  
 am going to succeed.  
 Since practical training in this field seems  
 almost impossible to get here, The next best thing  
 is to be good at theory and try our bit and make methods  
 at home. With that view it is that I want to work for  
 a Ph.D. We have none in India who is an expert in Air  
 Craft Structural side. I am taking course in aerodynamics  
 and experimental stress analysis. The latter is the  
 most modern and this country is much advanced. I hope  
 to do some work in it and may be with the help of some  
 of the professors try again to get into firm who are  
 doing research work in this field. There is a great air  
 craft school in Santa Maria, California where an extensive  
 training is being given to boys in all the fields of Aero  
 Engineering. It is the standard of a College student. So  
 after my Ph.D. if I get a chance of working there as an  
 assistant for a few months, I can utilize the methods to  
 our advantage when I come home.  
 These are my ideas, Sir. If our Government wants  
 to reap some advantage from the vast technical scheme  
 they have adopted, they have to back up completely and  
 unreservedly some of the students and give them all chances  
 to become experts in a way at least. The Government  
 has to exert pressure on the U.C. Government to allow  
 us to get trained in some of the industries. Just  
 sending a large number and getting them all back after  
 a two years would do any good. It will be a repetition of  
 the old English system and you know what it will result in.

I consider this scholarship of mine as a sacred  
 trust and I want to see my country as great as any other  
 nation and to that end I am pledged to work hard. About  
 me, Professor Niles has written in detail. I hope, Sir,  
 you will give your earnest consideration to what I have  
 written about and reply to me. Thanks.

Yours obediently.

Sd/- M.Vasudevan.

(TANEJA)  
 9.10  
*Pravin*



I consider this scholarship of mine as a sacred trust and I want to see my country as great as any other nation and to that end I am pledged to work hard. About me, Professor Miles has written in detail. I hope, Sir, you will give your earnest consideration to what I have written above and reply to me. Thanks.

Yours obediently,

M. Vasudevan.

(ATTN:)

or

*[Signature]*

BY AIR MAIL.

No.F.3-11/45-0.D.IV.  
Government of India,  
MINISTRY OF EDUCATION.

NEW DELHI, Dated the 19th November, 1947.

To

Dr. B. K. Byram,  
Educational Liaison Officer,  
Education Department,  
Indian Embassy,  
635 F. Street,  
WASHINGTON, D.C., U.S.A.

20 NOV 1947

Subject: Advanced Studies Overseas in respect of  
Mr. M. Vasudevan, 1945 Madras Scholar -  
extension in the period of scholarship.

Dear Dr. Byram,

Will you kindly refer to your letter No.G-370/45 dated 31st March 1947 and this Ministry's letter and endorsement of even No. dated 19-9-1947 and 22-9-1947 respectively on the above subject?

I am forwarding herewith copies of the Government of Madras letters Numbers 38578-C2/47-3/Edn. and 38578-C2/47-4/Edn. dated 27-8-1947 and 11-10-1947 respectively, in which they desire that Mr. Vasudevan should complete the M.Sc. Degree in Aeronautical Engineering at the Stanford University, and then undergo practical training for one year in aircraft factories by accepting employment, if necessary.

On his return, he will be required to assist the Professor of Aeronautical Engineering in a Government Engineering College in lectures and other duties that might be assigned to him by the Professor. It is also possible that he might be required to serve as a consultant to some aircraft factories with the Provincial Government after some years of experience.

We also recommend that the period of scholarship for Mr. M. Vasudevan should be extended upto December 1948. It is hoped that by this time Mr. Vasudevan will have completed his M. Sc. degree and will also have had time to undergo practical training as desired by the Provincial Government. Please confirm. In the meanwhile, could you kindly let us know urgently whether arrangements could be made for the scholar's further studies and training ..



training, as desired by the Government of Madras? As regards the proposed training in aircraft factories as an employee, you are nodoubt aware that any remuneration earned by Mr. Vasudevan in that capacity will have to be set off against the stipend that he is receiving from Government.

Yours sincerely,

D.K. Hingorani

(D.K. HINGORANI)

Copy by Airmail to the Secretary to the Government of Madras, Education and Public Health Departments, Madras, with reference to his letter No. 38578-C.2/47-4/Edn. dated 11-10-1947. The Provincial Government will be informed on receipt of a reply from the Educational Liaison Officer at the Indian Embassy, Washington.

By Order,

D.K. Hingorani

(D.K. HINGORANI)  
for Secretary.

*(Signature)*

*Submitted for perusal. Further communication with ref. to A above may be awaited.*

*ET  
20-11-47  
26-11-47*

*27/11/47*

AIR MAIL.

NO.F.3-11/45-ODIV.  
Government of India,  
Ministry of Education,  
New Delhi 3, the 18th Feb., 1948.

From

Sir S.S. Bhatnagar, O.B.E., D.Sc., F.R.S.,  
Secretary to the Govt. of India.

To

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

SUB:

ADVANCED STUDIES OVERSEAS IN RESPECT  
OF MR. M. VASUDEVAN 1945 SCHOLAR

Sir,

I am directed to refer to correspondence resting with this Ministry endorsement of even number, dated the 15th Nov., 1947 on the above subject and to state that the Indian Embassy, Washington, have informed the Govt. of India that Mr. Vasudevan took the Master's degree in Aeronautical Engineering at the Stanford University in June, 1947. Since then he has been doing Aircraft Design and Structure at the Harvard University; The Consolidated Voltaire Aircraft Corporation, was approached by the Educational Liaison Officer, for Mr. Vasudevan's practical training, but without success. The Indian Embassy state that due to the confidential nature of Aircraft Engineering Works in the U.S.A. non-citizens cannot easily obtain the necessary training in the American Aeronautical Industry.

This Ministry has, however, written again to the Educational Liaison Officer at the Indian Embassy requesting him to make further attempts to arrange Mr. Vasudevan's practical training in Aeronautical Engineering as desired by the Provincial Govt. It has also been suggested to him that if that is not possible at all he may allow the scholar to complete an advanced research course in a suitable institution where adequate facilities are available. If even that is not possible the Educational Liaison Officer has been instructed to send the scholar back.

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

D.K. Hingorani

(D.K. Hingorani)  
for Secretary.



AIR MAIL.

NO. F-3-11/45-014.  
Government of India,  
Ministry of Education,  
New Delhi 3, the 18th Feb., 1948.

From

Sir S.S. Bhattacharya, O.B.E., D.Sc., F.R.S.,  
Secretary to the Govt. of India.

To

The Secretary to the Govt. of Madras,  
Education and Public Health Dept., MADRAS.

SUB: ADVANCED STUDIES OVERSEAS IN RESPECT  
OF MR. M. VASUDEVAN 1945 SCHOLAR

I am directed to refer to correspondence  
dated the 18th Nov., 1947 on the above subject  
and to state that the Indian Embassy, Washington, have  
informed the Govt. of India that Mr. Vasudevan took  
the Master's degree in Aeronautical Engineering at the  
Stanford University in June, 1947. Since then he  
has been doing Aircraft Design and Structure at the  
Harvard University. The Consolidated Voltaire  
Aircraft Corporation, was approached by the Educational  
Liaison Officer, for Mr. Vasudevan's practical training,  
but without success. The Indian Embassy state that due to  
the confidential nature of Aircraft Engineering Works  
in the U.S.A. non-citizens cannot easily obtain the  
necessary training in the American Aeronautical  
Industry.

This Ministry has, however, written again to  
the Educational Liaison Officer at the Indian Embassy  
requesting him to make further attempts to arrange  
Mr. Vasudevan's practical training in Aeronautical  
Engineering as desired by the Provincial Govt. It has  
also been suggested to him that it is not possible at  
all to allow the scholar to complete an advanced  
research course in a suitable institution where  
adequate facilities are available. It even that it is not  
possible the Educational Liaison Officer has been  
instructed to send the scholar back.

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

(D.K. Hingorani)  
For Secretary.

No. F3-11/45.0.1.IV.  
Government of India,  
Ministry of Education,

AIR MAIL.

New Delhi 3, the 21st April 1948.



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

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

Subject:- Advanced Studies overseas in respect  
of Mr. M. Vasudevan, 1945 scholar.

Sir,

I am directed to refer to this Ministry letter of  
even number dated 18th February 1948 on the above subject, and to  
state that the Educational Liaison Officer at the Indian Embassy,  
Washington has since informed this Ministry that all his efforts  
to arrange a suitable course of practical training for Mr.  
Vasudevan, on the lines desired by the Provincial Government have  
failed and that the prospects of securing the required facilities  
in the near future are none too bright. He has also stated that  
if the scholar were to be allowed to do further research work,  
he would require an extension of his scholarship by about a year or  
more even after June 1948, which would mean a total extension of  
over a year and a half. He has therefore recommended that Mr.  
Vasudevan should complete his programme of work in the United  
States of America by June 1948, and then return to India. In view  
of the very long period of extension involved in the scholar's  
continuing his theoretical studies and of the extreme difficulty  
of securing suitable facilities for his practical training with  
United States of America this Ministry is inclined to agree with the  
Educational Liaison Officer that Mr. Vasudevan should return to  
India in July 1948 which, in itself will involve an extension of  
above 6 months, after having completed the Master's Degree Course  
at Stanford and some practical training in that country. The  
Government of Madras may kindly consider the case and communicate  
their decision to the Government of India telegraphically. If,

however,....



however, no reply is received from the Provincial Government within a fortnight, this Ministry will assume that they also agree with this Ministry's decision.

pp 41-45  
infra

I am also to forward herewith for favour of necessary action, a copy of Mr. Vasudevan's letter dated 6th March 1948 addressed to the Honourable the Prime Minister to the Government of India, and to state that it is considered undesirable that a scholar should correspond direct with the Prime Minister, without representing his case through the Provincial Government who have sponsored him, and the Indian Embassy, Washington who are responsible for his training and general welfare in the United States of America.

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

P. J. Srinivasan  
for Secretary.



Copy of letter dated 6th March 1948 from Mr. Vasudevan to Honourable the Prime Minister to the Government of India.

I am one of the students sent here by the Government of Madras to study aeronautical engineering. I came here in June 1945. I took my M.S. in aeronautics at Stanford last June and am continuing my work at Harvard University.

During the past two years while I was at Stanford, I tried my level best through my professors to get into an air craft factory in the west coast. It was in vain since I am a foreigner and the army and navy of U.S has to clear me. The Chief Engineers made me fill these forms and tried to get me in on the idea "that every rule must have an exception" (I am quoting one of the letters from the Chief Engineer of studies of Valtee air craft Co. San Diego). Nothing came out of these trials. The situation is this as far as the air craft industry is concerned, the doors are closed against Indians. I am right in singling us alone since I find many Chinese, Argentinians and Turkish students working. The Educational Liaison Officer could not do any thing - at any rate that is what he informed me long ago. So under the circumstances what I could do is to get more theoretical and laboratory training in some of the Universities here and come back by an hit and miss method. After all all countries began that way.

In this connection I want to inform you that I am working in the field of structural analysis of air craft. Again in this field there is a new branch called Experimental Stress analysis. It has been developed only very recently and is being used extensively with great success by private agencies as well as by the Government in this country. It is applied not only in the field of air craft structures but in many other fields like Soil Mechanics, design of dam and in fact in any field where analysis of structure have to be made. The Bureau of Aeronautics has a separate laboratory for this department.

Fortunately I am getting some experience in this field



(23) 43

at M.I.T. where they have developed a very good laboratory. The Professor in charge has taken me in as a special student and is giving me some good experience in learning the techniques above instead of in a group. It is imperative that our Country should have a laboratory of this type and so I suggest that I be allowed to plan a laboratory with the help of professor here. Even a University like Harvard which is just beginning to develop this laboratory is finding it difficult since it requires a man with some experience in the technique. As I wrote above at M.I.T. the professor in charge is the Secretary of Experimental Stress analysis Society and if I am given some time I may be able to learn quite a lot about the technique. I could visit some of the laboratories outside M.I.T. and order for the necessary instruments from some firms like the G.E. or Westing house. This is what other Government students have done. I mean of Governments like Turkey, Greece, China, Argentina and until recently even Russia. In this field of Experimental Stress analysis one must have a very good background of Elasticity and allied Applied Mechanics subjects and also air craft structures. I studied quite a few of these subjects under Dr. Timoshenko at Stanford - he is a world wide authority on Applied mechanics. He was willing to direct my thesis at Stanford. But they direct have the Experimental Side. So I came here to M.I.T. I could go back next year and work for my Doctorate at Stanford. The professor there told me that they have an idea of developing such a laboratory and that when I go back I could get further experience in working out the lab there. My scholarship is upto 1948 December. One more year is necessary i.e. upto 1949 December. Of the necessity of such a lab for our country there is no doubt. It is whether I should be allowed to develop it or some body else is to be sent <sup>down</sup> down here. One thing it is going to take a long time for him to learn what all I have learnt and another whether he will get the same privileges here, remains to be seen. As far as I know there are very few (in fact none I believe) who know these techniques in India. I was at Indian Institute of Science at Bangalore and there was none there.



241

65

-2-

For all this the Government must back us young men unreservedly - young men who have some ideas and plans. Such assurances are completely lacking. In fact one is unable to break through the dead wall of Red Tape both at home and in Washington D.C. Office. I could give you many instances. I wrote a letter to Educational Officer many months ago there was no reply. I talked to him personally last month. I wrote again. No reply. I wanted to put these ideas before our Ambassador and see whether he could get me in one of the factories through Diplomatic channels; I wrote to him for an interview. He asked me to discuss matter with Dr. Biram, the Education officer. It is a difficult task to fight a battle on two sides, however much one is inspired by ideas. The two sides here are on Government Red tape and the other the prejudice against us in this country.

Hence I am writing this letter personally to you as a last resort. We, (young people like me I suppose) have got a great admiration for your policies and ideas and it is my hope that you will reply to this letter in the best democratic practice. I wrote a letter to Maulana Azad a few months ago, to my utter disillusionment he did not reply. We, the younger generation have a great admiration for the congress leaders; are we going to be disillusioned.

I am sorry to write to you such a long letter. But it could not be helped. I wanted to make my ideas known; it is my duty as a scholarship student who is being fed by the people's money; whether you are going to act up on this is up to you.

I have to be informed about my extension for another year i.e. 1948 December to 1949 December before the end of this April since my studies have to be planned let above the difficulty of joining the necessary University. My professor was quite willing to write to you about these plans.

But I thought rather preferred our Premier, acted on my own way.

Thanks.



46

LDH (ca)

Draft Telegram

New Delhi

Telegram

25.4.48

Reference Your Letter (no)

F 3-11/45-ED IV (dated) Twentyfirst instant regarding Mr M. Vasudevan 1945 Scholar Stop. This Govt agree (to Govt of India's proposal (that) Scholar should return (to) India after completing (his) programme (of) work by (in the U.S.A) by June 48

Pc in Confirmation  
to Secy to the  
Govt.  
Ministry of Edu.  
New Delhi, 3

26.4.48

26.4.48

27/4/48

Edhealthe  
W  
27/4/48



48

*[Faint handwritten notes]*

*[Faint handwritten notes]*

*[Faint handwritten notes]*

21. 11. 45

49

21. 11. 45

Letter 38578-C2/47-6 Edn. Dated 8-5-48.

Ref.

3/10/5

To The Secretary to the Govt. of India, Ministry of Education, New Delhi 3.

Sir,

Advanced Studies Courses in respect of Mr M. Vandevan, 1945 Scholar.

pages 37-38 of O.D. IV

I am directed to invite attention to your letter no. 73-11-45 dated 12. 21<sup>st</sup> April 1948 on the



NEW DELHI 3, the

14th

May, '48.

From



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

To

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

SUBJECT:

ADVANCED STUDIES OVERSEAS IN RESPECT OF MR. M.  
VASUDEVAN, 1945 SCHOLAR - EXTENSION IN THE PERIOD  
OF SCHOLARSHIP.

Sir,

I am directed to refer to your telegram dated the 27th April 1948 on the above subject, and to state that the Indian Embassy, Washington have again informed this Ministry that it is not possible to arrange Mr. M. Vasudevan's practical training in the United States<sup>of</sup> America. Instead they have advised that the scholar should be allowed to stay in the United States<sup>of</sup> America upto September 1948, in order to enable him to complete the advanced research Ph.D. degree course in Aeronautical Engineering at the Harvard University in September 1948 which in the opinion of the Indian Embassy would considerably enhance the value of his training. On reconsideration, Government of India also recommend Mr. Vasudevan's stay in the United States<sup>of</sup> America, upto September 1948, as advised by the Indian Embassy. I am to request the Government of Madras kindly to consider the case, and communicate their decision to this Ministry telegraphically, within a fortnight of receipt of this communication.

I am also to forward herewith, for your information and necessary action, Mr. Vasudevan's Employment Forms (with enclosures) in duplicate, received through the Indian Embassy, Washington.

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

DKHingorani  
for Secretary

50 2  
The above subject and to state  
that the Govt. of Madras entirely  
agree with the Govt. of India in the observations  
contained in the second paragraph  
of your letter in respect of the letter  
addressed by Mr. Vasudevan direct to  
the Prime Minister of India. I am to  
ask that if the G. of I have no objection,  
the Educational Liaison Officer in  
Washington may be requested to  
inform the scholar in question  
that the Govt. of Madras disapprove  
his action in having addressed that  
letter the Prime Minister direct.

1.5.48

3/5/48

Wf



GOVERNMENT OF INDIA  
MINISTRY OF EDUCATION

APR 12 1948

Overseas Scholarships (Provincial) - Application for Employment of Scholars

N.B. - This application must be submitted (in quadruplicate) at least FOUR months before a scholar's stay abroad is to come to an end.

|                                                                                                   |                                                                                                 |                           |                   |      |                          |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|-------------------|------|--------------------------|
| 1. Full Name (in block letters)                                                                   | METHIL VASUDEVAN                                                                                |                           |                   |      |                          |
| 2. Date of Birth                                                                                  | 10-5-1918                                                                                       |                           |                   |      |                          |
| 3. Father's Name                                                                                  | K. KOVUNNI MENON                                                                                |                           |                   |      |                          |
| 4. Full address in India to which correspondence should be addressed to the scholar on his return | Methil House, Chittiklemchery Post.<br>(via) Palghat, Malabar, Madras.                          |                           |                   |      |                          |
| 5. (i) Subject of Scholarship<br>(ii) Exact Branch                                                | Aeronautics<br>Air plane Structures and design                                                  |                           |                   |      |                          |
| 6. Year of Selection                                                                              | 1945                                                                                            |                           |                   |      |                          |
| 7. Name of Sponsoring Province                                                                    | Madras                                                                                          |                           |                   |      |                          |
| 8. Date of commencement of scholarship (Date of arrival in the country of study)                  | 1st Jan. 1946.                                                                                  |                           |                   |      |                          |
| 9. Date on which the course of his studies is due to terminate                                    | December 1948. (if not extended by 1 year or which is necessary for finishing work for a Ph.D.) |                           |                   |      |                          |
| 10. Approximate date of return in India                                                           |                                                                                                 |                           |                   |      |                          |
| 11. Qualifications prior to selection                                                             |                                                                                                 |                           |                   |      |                          |
|                                                                                                   | Name of College, Institute or University attended                                               | Examination Passed        | Division obtained | Year | Subjects Taken           |
| (a) Academic<br>(i) Degree & post-graduate examinations only                                      | College of Engineering<br>Madras                                                                | B.E.                      | Hons.             | 1942 | Electrical Engineering   |
| (ii) Post-graduate training or research                                                           | Indian Institute of Science<br>Bangalore                                                        | Diploma in<br>aeronautics |                   | 1945 | Aeronautical Engineering |
| (iii) Published Works (give names of the papers published, if any).                               |                                                                                                 |                           |                   |      |                          |



|                                                                                                    | Institution, Co., or Office where trained or employed | Post or capacity in which employed | Pay if any drawn (with scale) | Period                       |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------|-------------------------------|------------------------------|
| (b) Practical training and industrial or professional experience gained (including apprenticeship) | Govt of Madras Hydro Electric Dept                    | Apprentice                         |                               | 1 year (1943 Jan - 1944 Jan) |
|                                                                                                    | College of Engineering Power House, Guindy            | Shift Engineer                     |                               | 4 months (1944 Feb - June)   |
|                                                                                                    | Hindustan Aircraft Company, LTD Bangalore             | Trainee                            |                               | 6 months (1945 April - Sept) |

(c) Additional qualifications not covered in (a) and (b) above

- (d) Post held at the time of selection:
- (a) Name of the Post
  - (b) Pay last drawn and the scale of pay
  - (c) Office or Government where employed
  - (d) Did you resign, or go on study leave terms or on extraordinary leave?

12. Overseas Qualifications Acquired:

(a) Name of the country of study U.S.A

(b) Details of the course of study covered (up-to-date):

|              | Institution or University, etc., attended | Duration  |           | Subject With Exact Branch | Some details of the course (if the space is not sufficient, attach a separate sheet) | Degree, Diploma or Certificate if any, obtained |
|--------------|-------------------------------------------|-----------|-----------|---------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------|
|              |                                           | From      | To        |                           |                                                                                      |                                                 |
| (1) Academic | Stanford University California            | 1946 Jan  | 1947 June | Mech Eng - Aerodynamics   | Sheet attached                                                                       | M.S                                             |
|              | Harvard University Cambridge              | 1947 Sept | -         | Aerodynamics              | " "                                                                                  | Working for a Ph.D                              |
|              | (Taking Course at M.I.T. Concurrently)    |           |           |                           |                                                                                      |                                                 |

|                                          |                                                                                                                                                                                                                               |                            |  |  |  |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|--|--|
| (ii) Practical Training                  |                                                                                                                                                                                                                               |                            |  |  |  |
| (iii) Educational visits and study tours | Boling Air Craft Co;<br>Douglas Air Craft Co;<br>Hughes Air Craft Co.<br>Northrop Air Craft Co.<br>Consolidated Vultee Air Craft San Diego<br>N.A.C.A. Moffet Field<br>Baldwin Locomotive Works<br>Westinghouse Research Lab. | During the years 1946-1948 |  |  |  |

(iv) Any papers published? Please give details or attach copies

13. (i) Do you have any suggestions about your employment?
- (ii) Would you prefer a
- (a) Administrative
  - (b) Technical or
  - (c) Teaching Post?

Job Consistent with subjects studied (mentioned above in (v2))

(c), (b), (a) will be the order of preference for the time being

14. Testimonials attached (Attach at least 2 testimonials from Professors or Supervisors under whom you worked during your studies overseas and give their names and addresses)

Two testimonials attached

Signature of the Applicant Mr Vasudevan

Date 8th April '48



56

15 Tutor's Remarks:

Please see letters from Professors  
Niles and Timoshenko, attached.

16. Forwarding Report by the  
Indian Embassy or H.C.'s  
Office concerned on the  
Scholar's work and general  
conduct (if necessary any  
confidential report may be  
sent separately.)

Recommended for a suitable  
post. Conduct satisfactory.

*A.M.D. Rosario*  
A.M.D. Rosario  
Deputy Educational Liaison Officer.

Signature of the  
forwarding authority

Date

N.B. Separate sheets to be attached in case space in any  
column is found insufficient. Please denote carefully.

STANFORD UNIVERSITY  
School of Engineering

DEPARTMENT OF MECHANICAL ENGINEERING

Stanford California

March 29, 1948

To Whom It May Concern:

I am writing you on behalf of Mr. Methil Vasudevan  
who was a student in my classes of advanced mechanics at  
Stanford University during the 1946-47 academic year.

Mr. Vausdevan was a very good student, receiving  
the best grades in my classes. I feel that he is capable  
of doing excellent work on a Doctor's thesis, which I am  
willing to supervise.

Very truly yours,

S. Timoshenko  
Prof. of Theoretical and  
Applied Mechanics.



58

STANFORD UNIVERSITY  
School of Engineering

Stanford California

March 22, 1948

DEPARTMENT OF MECHANICAL ENGINEERING

To Whom It May Concern:

I am writing you on behalf of Mr. Methil Vasudevan who was a student in my classes of advanced mechanics at Stanford University during the 1946-47 academic year.

Mr. Vasudevan was a very good student, receiving the best grades in my classes. I feel that he is capable of doing excellent work on a Doctor's thesis, which I am willing to supervise.

Very truly yours,

S. Timoshenko  
Prof. of Theoretical and Applied Mechanics.

59

STANFORD UNIVERSITY  
School of Engineering

STANFORD, CALIFORNIA

DEPARTMENT OF MECHANICAL ENGINEERING

To Whom It May Concern:

Mr. Methil Vasudevan was a student in my classes in Structural Theory, Advanced Structural Theory and Airplane Structural Theory for four quarters, from April 1946 to June 1947. In June 1947 Stanford granted him the degree of Master of Science in Mechanical Engineering: Aeronautics. Since June 1947 I understand that he has been a student at Harvard and the Massachusetts Institute of Technology specializing in Experimental Stress Analysis and Aerodynamics.

In my classes Mr. Vasudevan was a thoroughly satisfactory student with a high degree of ability and industry. It is my opinion that if he is allowed to continue his studies in this country for another year, the required investment in time and money will be to his advantage and also to that of his future employers. In this connection, I mean by "studies" either formal study in a university of practical experience in the aeronautical industry or in airline operation.

Very truly yours,

Alfred S. Niles  
Prof. of Aeronautical Engrg.



STANFORD, CALIFORNIA

School of Engineering

DEPARTMENT OF MECHANICAL ENGINEERING

To Whom It May Concern:

Mr. Merrill Vessenden was a student in my classes in Structural Theory, Advanced Structural Theory and Airplane Structural Theory for four quarters, from April 1946 to June 1947. In June 1947 Stanford granted him the degree of Master of Science in Mechanical Engineering; Aeronautics. Since June 1947 I understand that he has been a student at Harvard and the Massachusetts Institute of Technology specializing in Experimental Stress Analysis and Aerodynamics.

In my classes Mr. Vessenden was a thoroughly satisfactory student with a high degree of ability and industry. It is my opinion that if he is allowed to continue his studies in this country for another year, the required investment in time and money will be to his advantage and also to that of his future employers. In this connection, I mean by "studies" either formal study in a university or practical experience in the aeronautical industry or in airline operation.

Very truly yours,

Alfred S. Niles  
Prof. of Aero. Engrg.

32

The following main subjects were studied at Stanford:

1. Structural Theory -  
Professor Niles  
Review of elementary St. with special attention to development of beam theory and its application to beams of unsymmetrical section
2. Advanced St. Theory -  
Professor Niles I  
Beam deflections, continuous beams, bending of beams, shear flow, torsion, stress ratios.
3. Advanced St. Theory II -  
Prof. Niles  
Thin Walled Columns, Compressive panels, analysis of redundant structures, rigid frames beam columns.
4. Airplane St. Theory-  
Prof. Niles  
Incomplete tension field shell analysis for bending, ring analysis, instability, torsional column failure.
5. Introduction to Aerodynamics -  
Professor Reid  
History of flight, mechanics of flight. Characteristics of air fields?, parasite drag elements of static instability, Controllability and performance
6. Wing Theory-  
Prof. Reid  
Theory of lift and resistance of monoplane and biplane, downwash. Wing profile theory. Span Load distribution, effect of taper, twist and sweep on pitching moments.
7. Advanced aerodynamics-  
Prof. Reid  
Approximate and rigorous method of performance prediction. Detail analysis of St. stability, boundary layer and skin friction, scale effect, auxiliary lift increase devices
8. Aircraft Propellers-  
Prof. Reid  
Principal theories of prop. action, aerodynamic characteristics of prop. as affected by pitch form and no. of blades.
9. Aerodynamic Lab-  
Prof. Reid  
Operating characteristics of wind tunnel, aerodynamic characteristics of bodies of form as well as those of wings, props., and airplanes.



The following main subjects were studied at Stanford:

1. Structural Theory - Professor Niles
  2. Advanced St. Theory - Professor Niles
  3. Advanced St. Theory II - Prof. Niles
  4. Airplane St. Theory - Prof. Niles
  5. Introduction to Aero-dynamics - Professor Reid
  6. Wing Theory - Prof. Reid
  7. Advanced aerodynamics - Prof. Reid
  8. Aircraft Propellers - Prof. Reid
  9. Aerodynamic Lab - Prof. Reid
- Review of elementary St. with special attention to development of beam theory and its application to beams of unsymmetrical section.
- Beam deflections, continuous beams, bending of beams, stress flow, torsion, stress ratios.
- Thin Walled Columns, compression panels, analysis of rectangular structures, rigid frames, beam columns.
- Incomplete tension lines in shell analysis forment in time bending, ring analysis of his instability, torsional failure.
- History of flight, mechanics of flight, characteristics of air fields, parasite drag, elements of static instability, controllability and performance.
- Theory of lift and resistance of monoplane and multiplane, downwash, wave profile theory, span load distribution, effect of taper, twist and sweep on pitching moments.
- Approximate and rigorous method of performance prediction, detail analysis of St. stability, boundary layer and skin friction, scale effect, auxiliary lift in stream device.
- Principal theories of prop. action, aerodynamic characteristics of prop. as effect by pitch form and no. of blades.
- Operating characteristics of wind tunnel, aerodynamic characteristics of bodies of form as well as those of wings, props., and airplanes.

10. Theory of Elasticity- Prof. Timoshenko

Strain and Stress. Hook's law. Two dimensional problems. Photoelastic methods; stress concentration Elasticity i.e. 3 dimensions. St. Vir theory on torsion bending beams.

11. Plasticity Prof. Timoshenko

Brittle and Ductile various strength Hysteric and definition; flow in plastic region Creep?

12. Theory of Elastic Stability Prof. Timoshenko

Stability of Compression. The energy method, initial curvature. of rect. plates, St. Cylindrical tubes.

Other subjects studied were: Advanced fluid motion, Variable Advanced Calculum and Calculum of variation

Subjects studied at Harvard

1. Hydro aerodynamics Prof. Von Mises

Vortex theory, two motion. Wing of infinite span in 3 dimentional motion in finite span. of Vis Cais? fluid

2. Selected topics in aerodynamics

Compressible fluid waves turbulence

Von Mises

3. St. Mechanics of airplane  
4. Design of airplane

Subjects studied at M.I.T.

1. Applied Photo elasticity-

use of commercial photo apparatus with application to engineering problems.

3. Experimental stress analysis-Photo elasticity, brittle lacquer. strain gage and experimentation applied to static and leadings.



The following main subjects were studied at Stanford:

1. Structural Theory - Professor Miles
  2. Advanced St. Theory - Professor Miles I
  3. Advanced St. Theory II - Prof. Miles
  4. Airplane St. Theory - Prof. Miles
  5. Introduction to Aerodynamics - Professor Reid
  6. Wing Theory - Prof. Reid
  7. Advanced aerodynamics - Prof. Reid
  8. Aircraft Propellers - Prof. Reid
  9. Aerodynamic Lab - Prof. Reid
- Review of elementary St. with special attention to development of beam theory and its application to beams of unsymmetrical section. Beam deflections, continuous beams, bending of beams, stress, flow, torsion, stress ratios. Thin Walled Columns, compression, analysis of redwood structures, rigid frames, beam columns. Incomplete tension lines in shell analysis for time bending, ring and of his instability, torsional failure. History of flight, mechanics of flight. Characteristics of air fields, parasite drag elements of static instability and performance. Theory of lift and resistance of monoplane and multiplane, downwash, wing profile theory, span load distribution, effect of taper, twist and sweep on pitching moments. Approximate and rigorous method of performance prediction, detail analysis of St. stability, boundary layer and skin friction, scale effect, auxiliary lift increase device. Principal theories of prop. action, aerodynamic characteristics of prop. as effect by pitch form and no. of blades. Operating characteristics of wind tunnel, aerodynamic characteristics of bodies of form as well as those of wings, props., and airplanes.

# 10. Theory of Elasticity- Prof. Timoshenko

Strain and Stress. Hook's law. Two dimensional problems. Photoelastic methods; stress concentration Elasticity in i.e. 3 dimensions. St. Vir theory on torsion bending beams.

## 11. Plasticity Prof. Timoshenko

Brittle and Ductile materials. Various strength definitions. Hysteresis and definition; B. in plastic region. Creep?

## 12. Theory of Elastic Stability Prof. Timoshenko

Stability of Compressed members. The energy method, initial curvature. of rect. plates, Sta. Cylindrical tubes.

Other subjects studied were: Advanced fluid motion, Variable Advanced Calculus and Calculus of variations

### Subjects studied at Harvard

#### 1. Hydro aerodynamics Prof. Von Mises

Vortex theory, two dimensional motion. Wing of infinite span. of finite span. of Viscous fluid.

#### 2. Selected topics in aerodynamics

Compressible fluid waves turbulence

Von Mises

#### 3. St. Mechanics of airplane 4. Design of airplane

### Subjects studied at M.I.T.

#### 1. Applied Photo elasticity-

use of commercial photo apparatus with application to engineering problems.

#### 3. Experimental stress analysis-Photo elasticity, brittle lacquer. strain gage test and experimentation applied to static and dynamic loadings.



10. Theory of Elasticity - Prof. Timoshenko

11. Plasticity - Prof. Timoshenko

12. Theory of Elastic Stability - Prof. Timoshenko

1. Hydro aerodynamics - Prof. Von Mises

2. Selected topics in aerodynamics - Von Mises

3. St. Mechanics of airplane

4. Design of airplane

Subjects studied at M.I.T.

1. Applied photo elasticity -

2. Experimental stress analysis - photo elasticity, photoelasticity, strain gage, and experimentation and applied to static and loadings.

3. Use of commercial photoelasticity with application of engineering problems.

4. Photoelasticity in design of structural members.

5. Photoelasticity in design of structural members.

6. Photoelasticity in design of structural members.

7. Photoelasticity in design of structural members.

8. Photoelasticity in design of structural members.

9. Photoelasticity in design of structural members.

10. Photoelasticity in design of structural members.

11. Photoelasticity in design of structural members.

12. Photoelasticity in design of structural members.

13. Photoelasticity in design of structural members.

14. Photoelasticity in design of structural members.

15. Photoelasticity in design of structural members.

16. Photoelasticity in design of structural members.

17. Photoelasticity in design of structural members.

18. Photoelasticity in design of structural members.

19. Photoelasticity in design of structural members.

20. Photoelasticity in design of structural members.

21. Photoelasticity in design of structural members.

22. Photoelasticity in design of structural members.

23. Photoelasticity in design of structural members.

24. Photoelasticity in design of structural members.

25. Photoelasticity in design of structural members.

26. Photoelasticity in design of structural members.

27. Photoelasticity in design of structural members.

28. Photoelasticity in design of structural members.

29. Photoelasticity in design of structural members.

30. Photoelasticity in design of structural members.

31. Photoelasticity in design of structural members.

32. Photoelasticity in design of structural members.

33. Photoelasticity in design of structural members.

34. Photoelasticity in design of structural members.

35. Photoelasticity in design of structural members.

36. Photoelasticity in design of structural members.

37. Photoelasticity in design of structural members.

38. Photoelasticity in design of structural members.

39. Photoelasticity in design of structural members.

40. Photoelasticity in design of structural members.

41. Photoelasticity in design of structural members.

42. Photoelasticity in design of structural members.

43. Photoelasticity in design of structural members.

44. Photoelasticity in design of structural members.

45. Photoelasticity in design of structural members.

46. Photoelasticity in design of structural members.

47. Photoelasticity in design of structural members.

48. Photoelasticity in design of structural members.

49. Photoelasticity in design of structural members.

50. Photoelasticity in design of structural members.

51. Photoelasticity in design of structural members.

52. Photoelasticity in design of structural members.

53. Photoelasticity in design of structural members.

54. Photoelasticity in design of structural members.

55. Photoelasticity in design of structural members.

56. Photoelasticity in design of structural members.

57. Photoelasticity in design of structural members.

58. Photoelasticity in design of structural members.

59. Photoelasticity in design of structural members.

60. Photoelasticity in design of structural members.

61. Photoelasticity in design of structural members.

62. Photoelasticity in design of structural members.

63. Photoelasticity in design of structural members.

64. Photoelasticity in design of structural members.

65. Photoelasticity in design of structural members.

66. Photoelasticity in design of structural members.

67. Photoelasticity in design of structural members.

68. Photoelasticity in design of structural members.

69. Photoelasticity in design of structural members.

70. Photoelasticity in design of structural members.

71. Photoelasticity in design of structural members.

72. Photoelasticity in design of structural members.

73. Photoelasticity in design of structural members.

74. Photoelasticity in design of structural members.

75. Photoelasticity in design of structural members.

76. Photoelasticity in design of structural members.

77. Photoelasticity in design of structural members.

78. Photoelasticity in design of structural members.

79. Photoelasticity in design of structural members.

80. Photoelasticity in design of structural members.

81. Photoelasticity in design of structural members.

82. Photoelasticity in design of structural members.

83. Photoelasticity in design of structural members.

84. Photoelasticity in design of structural members.

85. Photoelasticity in design of structural members.

86. Photoelasticity in design of structural members.

87. Photoelasticity in design of structural members.

88. Photoelasticity in design of structural members.

89. Photoelasticity in design of structural members.

90. Photoelasticity in design of structural members.

91. Photoelasticity in design of structural members.

92. Photoelasticity in design of structural members.

93. Photoelasticity in design of structural members.

94. Photoelasticity in design of structural members.

95. Photoelasticity in design of structural members.

96. Photoelasticity in design of structural members.

97. Photoelasticity in design of structural members.

98. Photoelasticity in design of structural members.

99. Photoelasticity in design of structural members.

100. Photoelasticity in design of structural members.

65

Draft I 5/493

Telegram

Edueind  
New Delhi

Telegram  
P.C. 24-5-48

Reference your [no] F-3-11/S-2  
[dated] 14<sup>th</sup> instant regarding  
Vasudevan 1945 selection  
agree [to] Govt of India's  
[that] scholar should stay  
September 1948.

Push copy to  
Secy Govt of India  
Ministry of Edu.  
New Delhi. 3.

Copy to D.P.

103  
1954  
JO  
1954

DM  
20/5/48



66

EPH/C

Advanced Studies Overseas in respect  
of M. Vasudevan. 1945 scholar.  
employment forms.

Govt of India, Ministry of Edn.  
No. F.3-11/8-27/45 O.D.IV of 14-5-48

578/47-6 C, Edn of 24-5-48

The employment form, with  
enclosures, received from  
India in respect of Mr. M. Vasudevan,  
is forwarded to the D.P.I.  
for action.

20/5/48

The D.P.I.  
(with pp. 65-75  
of m. ngl.)  
24-5-48



No. F.3-11/8-27/45 O.D.IV  
Government of India,  
Ministry of Education,  
New Delhi 3, the 27th May, 1948.

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

To His Excellency the Ambassador for India in the  
United States of America,  
Education Department,  
2111 Massachusetts Avenue N.W.  
Washington D.C.

39122

Subject:- Advanced studies Overseas in respect of Mr.  
M. Vasudevan a 1945-46 Madras Government  
Sponsored Scholar.

Sir,

I am directed to refer to the correspondence on  
the above subject resting with this Ministry endorsement  
of even number dated the 14th May, 1948, and to forward  
herewith a copy of letter No. 38578-C2/47-6 Edn, dated  
the 8th May, 1948, from the Secretary to the Government  
of Madras to this Ministry for your information.

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

Sd/ K.P. Lakshmi,  
For Secretary.

SH/-

p.t.o.



68  
✓  
Copy to the Secretary to the Government of Madras,  
Education and Public Health Department, Madras, with  
reference to letter No. 38578-C2/47-6 Edn, dated the 8th May,  
1948.

By order,

*[Signature]*  
For Secretary.

SRH/-

CABLE

CORW

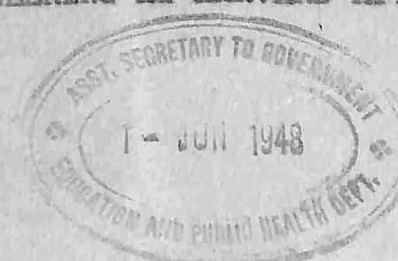
69  
STATE

INDEMBASSY

WASHINGTON

No. F.3-11/S-27/45 O.D.IV. REFERENCE YOUR CABLE 1790 E  
FIFTH MAY AND THIS MINISTRY ENDORSEMENT EVEN NUMBER FOURTEENTH  
MAY REGARDING EXTENSION FOR M VASUDEVAN 1945 MADRAS SCHOLAR AAA  
GOVERNMENT AGREE EXTENSION UPTO SEPTEMBER 1948 FOR COMPLETION  
OF PH D IN AERONAUTICAL ENGINEERING AT HARVARD AFTER WHICH  
SCHOLAR MUST RETURN AAAA

40467



EDUCIND

Post copy by Air Mail in confirmation.

✓ Copy to the Secretary to the Government of  
Madras, Education and Public Health Department, Madras with  
reference to his telegram dated the 24th May '48.

By Order

for Deputy Secretary  
GOVERNMENT OF INDIA.  
MINISTRY OF EDUCATION.

NEW DELHI 3, the

27th May, '48.

EPH

62

Fils.

11/6/48

one 8/6/48

7/6/48

main file under Cn



and 3 million were

मपत्र

215

R/L 1/10

$$\frac{24}{24} = 1$$
$$\frac{2}{5}$$

reference to his telegram dated the 23rd May 1938.  
Madras, Education and Public Health Department, Madras with  
✓ Copy to the Secretary to the Government of  
Post copy by Air Mail in confirmation.

84 01903

**B** Class  
Prefix

Code

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

Recd. at.

18 H.

—M

Sent at

H.

M.

From

To

By

By

Office of Origin

Date \_\_\_\_\_

## Service Instructions

Words

TO

4-550 Edhealth HJ Tjms  
N 3/11/5 27/45/OD IV reference this  
ministry endorsement even number  
6904 dated twentyseventh may regarding  
methil varsevan 1945 scholar  
near indembassy washington  
note cables scholar will do

N B.—The name of the Sender, if telegraphed, should be written after, but separated from the text.

Eden Press, Cal.—No. 25 (5164/B 139)—3-3-47—60,000 Bks

25 (5164/B 139) — 3-3-47 — 60,000 Bks  
only advanced research in stress





71 (do 3)

Class  
Prefix

Code

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

No.

Recd. at \_\_\_\_\_ H. \_\_\_\_\_ M. \_\_\_\_\_  
From \_\_\_\_\_  
By \_\_\_\_\_

Sent at \_\_\_\_\_ H. \_\_\_\_\_ M. \_\_\_\_\_  
To \_\_\_\_\_  
By \_\_\_\_\_



|                             |       |                       |        |
|-----------------------------|-------|-----------------------|--------|
| Office of Origin.<br>stress | Date. | Service Instructions. | Words. |
|-----------------------------|-------|-----------------------|--------|

TO

analysis and aerodynamics and  
that if the tank is p h d degree  
it will be incidental as  
pressure madras government have  
no objection in allowing  
him to continue research in

N B.—The name of the Sender, if telegraphed, should be written after, but separated from the text.

Eden Press, Cal.—No. 25 (5164/P 139)—3-3-47—60,000 Bks  
united states america till september  
1948 in view of his likely  
employment in teaching as he had





72

39

Class  
Prefix

Code

INDIAN POSTS AND TELEGRAPHS DEPARTMENT

Recd. at \_\_\_\_\_ H. \_\_\_\_\_ M. Sent at \_\_\_\_\_ H. \_\_\_\_\_ M.  
From \_\_\_\_\_  
By \_\_\_\_\_



Office of Origin.

Date.

Service Instructions.

Words.

TO

Kindly  
have reply

Edmund:

N B.—The name of the Sender, if telegraphed, should be written after, but separated from the text.

Eden Press, Cal.—No. 25 (5164/B 139)—3-3-47—60,000 Bks



$$\frac{KPH}{C_d}$$

73

40

Telegram

Edueind

from Delhi.

Telegram received  
 18/12/48  
 P.O. Secy to the Govt  
 Ministry of Edu  
 New Delhi. 3/12

~~29/6/18~~

142  
25645

Ref. your M-3/11/5 - 27/45 O.D. W. dated  
26.11.5 instant regarding <sup>Melick</sup> ~~Thurman~~ Vander  
your presumption scholar to continue  
research till September is confirmed.  
Edhealtli.

28/6/48

Wf  
29 Nov.



STATE

F3/11/S27/45/OD IV REFERENCE THIS MINISTRY ENDORSEMENT EVEN NUMBER

48655

• • • • •

Copy by air mail to H.E. the Ambassador for India in the U.S.A., Education Department, Indian Embassy, 2111 Massachusetts Avenue N.W. Washington D.C., with reference to his cable No. 1914E dated the 16th June, 1948. A further communication on the subject will follow on receipt of a reply from the Govt. of Madras.

for Secretary  
Ministry of Education  
Government of India  
New Delhi 3, the 25th June, 1948.

• RN •



CABLE

CORW

STATE

INDEMBASSY

WASHINGTON



No. P.S-11/S-37/45-O.D.IV.

FOR ROZARIO AAA YOUR

CABLE 1914 E SIXTEENTH JUNE AND THIS MINISTRY ENDORSEMENT  
AND D O LETTER EVEN NUMBER TWENTYFIFTH TWENTYSIXTH JUNE  
REGARDING M VASUDEVAN 1945 MADRAS SCHOLAR AAA GOVERNMENT  
AGREE SCHOLAR CONTINUE RESEARCH TILL SEPTEMBER 1945 AAA

50483

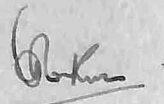
EDUCIND

Post Copy by Air Mail in confirmation.

✓ Copy to the Secretary to the Government of  
Madras, Education & Public Health Department, Madras with  
reference to his telegram dated the 29th June 1943.

Copy to O.D.V.

By Order

  
(K.P. LUKOSE)  
for Secretary.  
GOVERNMENT OF INDIA.  
MINISTRY OF EDUCATION.

NEW DELHI 3, the

July, '43.

(KARTAR) 2/7.



IV. 4376

29<sup>th</sup> July 1948.

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

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

SUBJECT:- ADVANCED STUDIES OVERSEAS IN RESPECT OF MR. M. VASUDEVAN, A MADRAS GOVERNMENT 1945-46 SPONSORED SCHOLAR.

57623 Sir,

In continuation of this Ministry endorsement of even No. 3 dated 2nd July 1948, regarding the above scholar, I am directed to state that the Indian Embassy at Washington have since informed this Ministry that they are arranging Mr. Vasudevan's return passage on a ship leaving United States of America in early September 1948.

Yours faithfully,

(K.P. Lukose)  
for Secretary.

Gope) 27.7.1948.

Encl 38578/47-9 C<sub>2</sub> Edn of 6. 8. 48 C<sub>2</sub>  
Copy communicated to Mr D.P.I  
2. Continuation of Memo no 38578/47-8 C<sub>2</sub> Edn  
of 24. 5. 48.

To  
 The D.P.I.  
 W. 980  
 copy 18  
 with a copy of p 76 above  
 W 918/18

W 980  
 48.66  
 88  
 48.66



No. F.3-11/S.27/45.S.II.  
Government of India,  
Ministry of Education,

New Delhi 3, the

September 1948

From

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

To

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

**Subject:-** ADVANCED STUDIES OVERSEAS IN RESPECT OF MR. M.VASUDEVAN  
A MADRAS GOVERNMENT 1945-46 SPONSORED SCHOLAR.

Sir,

In continuation of this Ministry's letter of even No.,  
dated the 19th July 1948 regarding the above scholar, I am directed  
to state that the Indian Embassy in Washington now report that they  
are arranging a return passage for Mr. Vasudevan on any ship  
leaving around the end of September 1948.

I am also to enclose, for the information of the Provincial  
Government copies of reports submitted by the scholar on Study  
Tours conducted by him in June 1948.

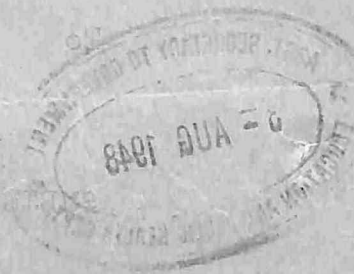
Yours faithfully,

KDH

Mlan

Gope) 13.9.1948.

(Harish Chandra)  
for Secretary





79

U.S. DEPARTMENT OF THE ARMY  
OFFICE OF THE CHIEF OF STAFF  
WASHINGTON, D.C.

117

Subject: Report of the  
visiting party to the  
Department of the Army  
on the 19th June 1948.

Subject: Report of the  
visiting party to the  
Department of the Army  
on the 19th June 1948.

In continuation of this memorandum  
dated 19th June 1948, regarding the  
visiting party to the Department of the Army  
on the 19th June 1948, the following  
information is being furnished for your  
information.

Very truly yours,  
[Signature]

117

117

U.S. DEPARTMENT OF THE ARMY  
OFFICE OF THE CHIEF OF STAFF  
WASHINGTON, D.C.

U.S. DEPARTMENT OF THE ARMY  
OFFICE OF THE CHIEF OF STAFF  
WASHINGTON, D.C.

44

80

REPORT OF STUDY TOUR MADE FROM 19TH JUNE 1948 TO 30TH JUNE 1948.

Attended the Symposium of the American Society for testing materials, held at Dehoit between 21st June and 26th June. During the week, there was an exhibition by 57 Companies exhibiting their testing machines. Got acquainted with the different up-to-date machines especially those concerning my subject stress analysis.

Left Dehoit on the 26th evening and reached Buffalo 27th morning - Sunday. On the 28th visited the Bell air craft Company; Saw the manufacturing section of Helicopters.

On the 29th left for New York and Boston. Reached Boston on the 30th night.

@@@@@@@@@



81

(6)  
v

82

REPORT OF STUDY TOUR MADE FROM 19TH JUNE 1948 TO 30TH JUNE 1948.

Attended the Symposium of the American Society for testing materials, held at Dehoit between 21st June and 26th June. During the week, there was an exhibition by 57 Companies exhibiting their testing machines. Got acquainted with the different up-to-date machines especially those concerning my subject stress analysis.

Left Dehoit on the 26th evening and reached Buffalo 27th morning - Sunday. On the 28th visited the Bell air craft Company; Saw the manufacturing section of Helicopters.

On the 29th left for New York and Boston. Reached Boston on the 30th night.

@@@@@@@@



83



No.F.3-11/S.27/45 S.II  
Government of India.  
Ministry of Education.  
New Delhi, the 10th Nov. 1948.

From

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

To

His Excellency the Ambassador for India in the U.S.A.  
Education Department, Indian Embassy,  
Washington, D.C.

80055

Subject:-Advanced Studies abroad in respect of Mr.  
M.Vasudevan 1945-46 Government of Madras  
sponsored scholar.

Sir,

I am directed to refer to the case of Mr. M.Vasudevan, 1945-46 Madras Government sponsored scholar, and to state that in this Ministry No.F.3-11/S.27/45 ODIV dated the 27th May, 1948, the Government of India agreed to the extension of his scholarship upto September, 1948, for completion of Ph.D. in Aeronautical Engineering at Harvard University, after which the scholar was to return to India. It is observed from the sailing list of scholars from the United States of America forwarded under your letter dated the 19th October, 1948 that Mr. Vasudevan sailed for the United Kingdom enroute to India on 16th October, 1948 on R.M.S. Queen Mary. In view of the position explained in your endorsement on Cable No.2240E dated the 22nd September, 1948 to the scholar, it is presumed that the scholar stayed in the United States of America from 1st October, 1948 to 15th October, 1948 at his own expense. This may kindly be confirmed.

Yours faithfully,

Sd/- N. Ram  
for Secretary.

Copy together with a copy of endorsement on cable No.2240/E dated the 22nd September, 1948 from the Indian Embassy, Washington forwarded to the Secretary to the Government of Madras, Education & Public Health Department, Madras.

Copy to S.V

103  
26.11.48

\*IK\*18.11.48.

Files.  
EDH/4  
20/11/48

By order,  
M. Ram.  
for Secretary.



A.M.D'Rozario.



No.F.3-11/S.27/45 S.II  
Government of India.  
Ministry of Education.  
New Delhi, the 25th Nov. 1948.

From



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

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

Subject:- Advanced Studies abroad in re  
of Mr. M.Vasudevan 1945-46 Ma  
Government sponsored scholar.

Sir,

I am directed to forward herewith an

application addressed to the Federal Public Service Commi  
by Mr. M.Vasudevan for the post of Assistant Director,  
Training and Education.Civil Aviation Directorate for such  
action as may be considered necessary by the Provincial  
Government. Mr. Vasudevan sailed on 16th October, 1948  
from the U.S.A. for the United Kingdom enroute to India.  
The date of his arrival in India and the employment  
position may kindly be intimated to this Ministry in due  
course.

Yours faithfully

*Mam.*  
FOR SECRETARY.

Copy of Cable No.2240/E dated the 22nd September, 1948 from  
Embassy of India, Education Department to Mr. M.Vasudevan,  
109 Lake View Cambridge Massachusetts.

2240/E YOUR LETTER TWENTYFIRST SEPTEMBER AAA YOUR MAY STAY

ON YOUR OWN FOR ONE OF TWO WEEKS AFTER END SEPTEMBER AAA

MEANWHILE IF ANYTHING DECIDED REPORT BY TELEGRAM

ROZARIO

C.C. Mr. K.P. Lukose: Regarding the 1945 Madras Government  
scholar. Mr. Vasudevan has just written  
to say that he is likely to get a paid Assistantship at  
Harvard University. His passage was arranged for 1st October,  
1948. Since the decision of the University regarding the Assis  
tanship will be made only in the first week of October,  
permission has been given to him to stay on at his own expense  
for a week to two weeks. If he is successful a cable will be  
sent to you and your previous approval obtained before he is  
allowed to accept the Assistantship. If, however, he is un-  
successful, he will be return to India in the middle of  
October, 1948.

A.M.D'Rosario.







91

2

accordance with the terms of the bond.

The question of funding an appointment for him is under consideration and if the attempt is successful he will not be available for the post for which he has applied.

JP 2/8  
5

DM  
8/1/48

JP  
8/1/48

JP  
11/1/48

JP  
8/1/48

CV

92/95995

M. Vasudevan; B. Sc. MS (Stan); MS (Harad)

Aeronautical Engineer  
Methil House;  
Chittillemchery; Madras.

Place Chittillemchery  
Date 21<sup>st</sup> Dec. '48



The Secretary  
Education and Public Health Dept.  
Govt of Madras.

Sir,

I am a student sent in Sept. 1945 to U.S.A. by the Govt of Madras for advanced study in Aeronautics. As per your communication through the Educational Dept., U.S.A, kindly note my reporting of my arrival in India on Dec 14<sup>th</sup> 1948. I sent my employment form duly filled last July.

Yours faithfully,  
M. Vasudevan



2009B

No. F.3-11/S-27/45-S.2.,  
GOVERNMENT OF INDIA,  
MINISTRY OF EDUCATION,

cr 94  
BY AIRMAIL.



NEW DELHI 3, THE 21<sup>st</sup> DECEMBER, 1948.

96995

From

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

To

✓ The Secretary to the Government of Madras,  
Education and Public Health Department,  
(M A D R A S).

SUBJECT: ADVANCED STUDIES OVERSEAS IN RESPECT OF  
MR. M. VASUDEVAN 1945/46 MADRAS GOVERNMENT  
SPONSORED SCHOLAR.

Sir,

I am directed to state that intimation has been received from the High Commissioner for India, London, that Mr. M. Vasudevan left by air for India on 12th December, 1948. It is presumed that he has already reached India and reported his arrival to the Government of Madras. I am, therefore, to request you kindly to intimate to this Ministry the date of the scholar's return to India as soon as possible. His employment position may also be communicated to this Ministry in due course.

Yours faithfully,

X. Madhavi.

( D. MADHAVI )  
for Secretary.

mean file  
Submitted  
separately

29/12/48

Punn/20-12.

Filed.  
The date of arrival of the  
Scholar has been communicated  
to the Govt.

KPM/c2

30/12/48







97

To,

I. B. Menon.  
Assistant Secretary  
Education and Public Health Dept.  
Secretariat Buildings  
Fort St, George  
Madras.

98  
C2  
over  
7 1/2 hrs

From,

M. Vasudevan.  
% T. J. Nair  
Post Engineer's office  
Madras Post Trust  
Madras.

Sir. I am a Govt of Madras overseas scholar who returned recently from U.S.A. While in U.S.A I spent \$50 for typing and preparation of my thesis at Harvard University. I did not get this from the Educational Department in U.S.A since I had to leave the place in a hurry. I told you about this in person and you were kind enough to ask me to submit a petition for the same. The various items for which the expenses were incurred are as follows:

|                    |       |
|--------------------|-------|
| Typing             | \$ 35 |
| Binding (2 copies) | \$ 10 |
| Photographs        | \$ 5  |
| Total              | \$ 50 |

P. T. O



99 2.

Kindly sanction the above amount and send the money to the above address. Thanks.

Yours faithfully,  
M. Vasudevan

REGISTERED

No. F.1/375/48-R.

FEDERAL PUBLIC SERVICE COMMISSION  
Post Box No.186, Council House,  
New Delhi, ~~Simla~~, the

From

The Secretary,

Federal Public Service Commission.

ASST. SECRETARY TO GOVERNMENT  
To  
10 JAN 1949  
EDUCATION AND PUBLIC

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

Subject:- Recruitment of an Assistant Director, Training  
and Education in the Civil Aviation Directorate.

2249 Sir,

file submitted separately

With reference to your letter No.38578-C2/47-10 Edn.,  
dated the 11th December, 1948, enclosing an application from  
a Government of Madras Overseas Scholar, Mr. M. Vasudevan  
for the above post, I am directed to say that Mr. Vasudevan  
has been called for interview on the 12th January 1949 at  
12 noon from the following address:

Mr. M. Vasudevan,  
Methil House,  
Chithillemchery,  
Palghat, Madras.

A copy of the Commission's summons is enclosed. It is  
requested that the candidate may be informed accordingly  
if he has any other address known to you.

May be filed. EDH/c2  
(Interview is on 12.1.49)

Yours faithfully,

*Ramabali*  
for Secretary,

Federal Public Service Commission.

GIPD-S1-17 FPSC-11-11-47-10,000

E c l

1/103  
17.1.49  
18/11



REGISTERED.

Air Mail

No.F. 1/374/48-R.

FEDERAL PUBLIC SERVICE COMMISSION.

P.B.No.186, Council House,  
New Delhi, the

From

The Secretary,  
Federal Public Service Commission.

To

Mr. M. Vasudevan,  
Methil House, Chitlillemchery,  
Palghat, Madras.

Subject: Recruitment of an Assistant Director, Training and  
Education in the Civil Aviation Directorate.

Sir,

With reference to your application for the above-mentioned post, I am directed to request you to attend for the purpose of interview with the Federal Public Service Commission at their office at Council House (Top Floor), New Delhi, on the 12th January 1949 at 12-00 noon.

2. The fact that a candidate has been summoned for interview does not guarantee that his demand for a higher starting salary will be supported by the Commission in case he is selected for appointment.

3. The Federal Public Service Commission do not defray travelling and other expenses of candidates summoned for interview, but contribute towards those expenses at a rate corresponding to the amount of a single second class railway fare by the shortest route to the place of interview from the railway station nearest to the candidate's normal place of residence or from which he actually performs the railway journey, whichever, is nearer to the place of interview, and back to the same station. If there is no railway station at your normal place of residence you will be paid steamer fare and/or road mileage in accordance with the terms and conditions stated in paragraph 5(1) of the "Instructions to Candidates for appointment by Selection". If you are a railway servant you must, to become eligible for the Commission's contribution, bring a certificate from the appropriate authority to the effect that you were not provided with free passes to cover the journey. Candidates coming from outside India will be paid the Commission's contribution in respect of the journeys performed within the limits of the Indian Dominion only.

4. I am to request you to acknowledge the receipt of this letter and to bring the originals of your diplomas and testimonials with you, together with any evidence of age you may possess. If you do not bring these you will be disqualified.

Yours faithfully,

*R. Ray*

Secretary,

Federal Public Service Commission.

AC/21.12.48.



103

104

57

No.F.3-11/S-27/45.S.2.  
Government of India,  
Ministry of Education.

New Delhi 3, the 6<sup>th</sup> January, 1949.



MEMORANDUM.

The undersigned is directed to acknowledge receipt of letter dated 21st December, 1948 from Mr. M. Vasudevan and to state that the date of his return to India viz. 14th December 1948 on completion of his studies in the United States of America has been noted in this Ministry. He is directed to contact the Government of Madras (Education and Public Health Department) regarding his employment, if he has not already done so.

Sd/-  
(Vikram Singh)  
for Secretary.

To

M. Vasudevan Esquire,  
Mathil House,  
Chitlillemchery,  
MADRAS.

VKM5I\*

No.F.3-11/S.27/45.S.2.

Copy togetherwith a copy of letter dated 21st December, 1948 from Mr. M.Vasudevan forwarded to:-

1. The Secretary to the Government of Madras, Education and Public Health Department, Madras in continuation of this Ministry letter of even No. dated 24th December, 1948

2. S.5.

By order,  
Vikram Singh,  
(Vikram Singh)  
for Secretary.

file submitted  
separately

10/1/49  
10/1/49  
17/1/49



105

106

25

50

Copy of letter dated 21st December, 1948  
from Mr. M. Vasudevan to the Ministry of Education,  
New Delhi.

-----

I am a student sent in September, 1945  
to United States of America by the Government of  
Madras for advanced training in <sup>aeronautics</sup> ~~aerodynamics~~. As per  
instruction issued to <sup>us</sup> by the Education Department,  
U.S.A., I am herewith reporting about my arrival  
in this Country. I landed ~~there~~ in Bombay on the  
14th December, 1948.



107

33/1  
for me  
MS  
10/11

Letter 95190 /ue kch  
29.12.48  
A/3-4.

(50) 108

EPH  
C2

Letter / Ref. 38578 C2 / 47-12 Edu 9 18.1.49  
To

The Secy to the Comd.  
Ministry of Edu  
from within 3

Sir.

Advanced Studies Course.  
by M. Vabndevan. Submission  
of thesis. Charges. Payment

I am directed to invite  
attention to my letter no. 95190 C2/48-2  
Edu 9 29.12.48 and to forward a  
copy of letter of mil from Sri M. Vabndevan  
1945 scholar, for payment of charges  
incurred by him in connection with  
the keeping & preparation of his thesis.  
I am to request enquiry whether the claim  
may be admitted for amount paid. f.

10.1.49 JP 157 49 MS 17/1/49



109

8971

110  
(6)

From

M. Vasudevan,  
Overseas Scholar.

To

The Secretary to the Government of Madras,  
Education & Public Health Department,  
Fort St. George, Madras.

Sir,

I am a Government of Madras scholar sent to U.S.A., in September 1945 for Specialising in Aeronautical Engineering. I came to this country on December 16, 1948. I was told by the Assistant Secretary to Education Department that there ~~is~~ no suitable job for me right then and that he had referred ~~to~~ my case to the Director of Public Instruction. (X) contacted the Deputy Director of Public Instruction, Mr. Bhargiah, and he told me that there ~~is~~ no suitable job for me in the Government Engineering Colleges; further he advised me to see whether I can get a suitable job elsewhere. So I went to New Delhi and other places like the Indian Institute of Science, Bangalore. The Director of the Institute has sent me a letter stating that I can be taken in as Assistant Professor in the Aeronautical Engineering Department at the Institute; further if I can -- accept this job I am to report for duty by the end of this week (ie.,) before 11th February.

(X)  
Bhargiah?

I request you to be good enough to kindly issue necessary orders enabling me to take up this job before 11th Feb. 1949.

Yours faithfully,  
m. Vasudevan

Madras  
Dated 7th Feb. 1949.



Utilization of the Services of Mr. N.V. Subba Rao, Madras Govt.  
1946-47 Sponsored Scholar.

With reference to your letter No.90035-C2/48-2 Edn. dated the 7th December, 1948, regarding the above scholar, I am directed to invite a reference to this Ministry letter No.F.2-27/47 / ODIV dated the 2nd June, 1948, 1948 (copy enclosed for ready reference) and to say that the Government of India wish to emphasize again that the Provincial Government ~~of India~~ should take the responsibility of employing all scholars sponsored by them under this Ministry's Overseas Scholarship's Scheme and they should not, as far as possible, try to impose their scholars on the Central Government for employment for reasons explained in the enclosed letter. Steps are however, being taken to explore avenues for the employment of Mr. Subba Rao.

Copy of Letter No.F.2-27/47-OA.IV, dated 2nd June 1948 from the Government of India, Ministry of Education, New Delhi.

Sub: Scholarships for Advanced studies overseas - Utilization of Services of Provincial Govt. sponsored scholars on their return to India after completion of studies abroad.

I am directed to state that the Government of India ~~have~~ have recently been receiving ~~many~~ many requests from Provincial Governments to absorb in employment under them returned Provincial Scholars, with the remark that the Provincial Government do not require the services of the scholar concerned. This would indicate that there is an impression that it is the responsibility of the Central Govt. to find suitable employment for all Overseas Scholars, Provincial as well as Central.

2. There has so far been in the matter of the employment of returned overseas scholars full co-operation between the Central and Provincial Governments, and the Government of India for their part greatly appreciate the co-operation which Provincial Governments have extended in regard to the placing in services under them those returned Central Scholars for whom the Central Govt. have not themselves been able to secure employment. Nonetheless the fact remains that the responsibility for placing the scholars in suitable employment rests with the Central Govt. in the case of Central Scholars and with the Provincial Governments in the case of Provincial Scholars.

3. In this connection I am directed to invite the attention of Provincial Govt. to the fact that the responsibility of the Government of India in placing their own scholars is already very heavy and has considerably increased since they have taken over the scholars from Sind and N.W.F.P. who have opted to serve India. I am therefore, desired to make it clear that, while the Government of India will continue to render every possible assistance in the matter of employment of Provincial Scholars, it is the primary responsibility of the Provincial Governments to absorb the scholars sponsored by them. The Provincial Govt. may of course make enquiries from the Central Govts. concerning available posts, and when the Provincial Government make such an enquiry from this Ministry they should regard it more or less as exploratory, as the Central Government do in regard to their scholars, and not assume that it will be possible for the Government of India to offer suitable employment to the scholar concerned.

/True copy/

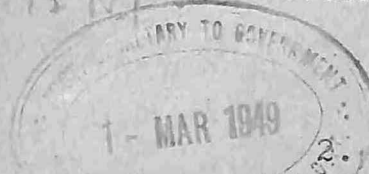


113

U.O. Reply No.1727 C1/48.

Office of the D.P.I.,  
Madras, 27th Febry. 1949.

Sub: Overseas scholar - Sri M. Vasudevan - Appointment of.  
Ref: Government U.O.No.38578-C2/47-13 Edn., dated 9-2-1949.



Resubmitted.

2. A copy of the letter R.C.12-7.A/49 dated 19-2-49 from the Principal, College of Engineering, Guindy, is submitted herewith.

3. When the employment form of Sri M. Vasudevan was referred for remarks, the Principal, College of Engineering, Guindy, opined that the scholar might be appointed as Instructor in Mechanical Engineering, relaxing the special rules. This opinion was based on the consideration that because the scholar was intended for absorption in the teaching personnel of Engineering colleges, he would have to be employed somewhere in teaching fundamental subjects for the Engineering students until the opening of the Aeronautical Engineering course. The scholar, as an Instructor in Mechanical Engineering, would be of service only to a limited extent as he is not fully qualified for the post. His services cannot, therefore, be utilized in any gazetted post with full advantage to this department until the Aeronautical Engineering course is opened.

D. P. I.

To the Secretary to Government, Edn. & Public Health Department,  
Fort St. George.

Copy of letter Rc.No.12-7 A/49 dated 19-2-49 from the Principal, College of Engineering, Guindy to the Director of Public Instruction, Madras.

Ref: Your endt. Roc.No.1727 C1/48 dated 15-2-49 regarding the employment of Sri M. Vasudevan, an overseas scholar.

As pointed out in my letter L.Dis.No.2-62 A/48 dated 9th July 1948, Mr. Vasudevan does not fulfil the statutory qualifications for the post of Instructor in Mechanical Engineering. As he was an overseas scholar sent by the Madras Government to be absorbed in the Education Department, I suggested that the statutory rules may be relaxed and he may be appointed as Instructor in Mech. Engineering pending the opening of a Degree course in Aeronautical Engineering, in one of the Engineering colleges, when he can be finally absorbed as Instructor in Aeronautical Engineering. As there are other scholars also deputed for the Mech. Engineering Department of Engineering colleges and are likely to return to India in a short time, the request of Mr. Vasudevan for being released from the Education Dept. may be favourably considered to enable him to take up service in the Indian Institute of Science, Bangalore.

The enclosures sent with your above endorsement are resubmitted herewith.

15717

*He has  
qualify in  
Electrical  
Engg*



113

U.O. Reply No.1727 C1/48.

Office of the D.P.I.,  
Madras, 27th Febry. 1949.

Sub: Overseas scholar - Sri M. Vasudevan - Appointment of.  
Ref: Government U.O.No.38578-C2/47-13 Edn., dated 9-2-1949.

Resubmitted.

2. A copy of the letter R.C.12-7.A/49 dated 19-2-49 from the Principal, College of Engineering, Guindy, is submitted herewith.

3. When the employment form of Sri M. Vasudevan was referred for remarks, the Principal, College of Engineering, Guindy, opined that the scholar might be appointed as Instructor in Mechanical Engineering, relaxing the special rules. This opinion was based on the consideration that because the scholar was intended for absorption in the teaching personnel of Engineering colleges, he would have to be employed somewhere in teaching fundamental subjects for the Engineering students until the opening of the Aeronautical Engineering course. The scholar, as an Instructor in Mechanical Engineering, would be of service only to a limited extent as he is not fully qualified for the post. His services cannot, therefore, be utilized in any gazetted post with full advantage to this department until the Aeronautical Engineering course is opened.

D. P. I.

To the Secretary to Government, Edn. & Public Health Department,  
Fort St. George.

Copy of letter Rc.No.12-7 A/49 dated 19-2-49 from the Principal, College of Engineering, Guindy to the Director of Public Instruction, Madras.

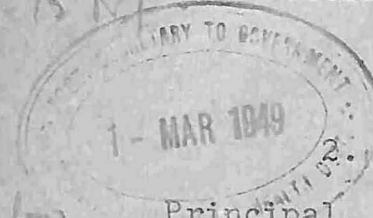
Ref: Your endt. Roc.No.1727 C1/48 dated 15-2-49 regarding the employment of Sri M. Vasudevan, an overseas scholar.

As pointed out in my letter L.Dis.No.2-62 A/48 dated 9th July 1948, Mr. Vasudevan does not fulfil the statutory qualifications for the post of Instructor in Mechanical Engineering. As he was an overseas scholar sent by the Madras Government to be absorbed in the Education Department, I suggested that the statutory rules may be relaxed and he may be appointed as Instructor in Mech. Engineering pending the opening of a Degree course in Aeronautical Engineering, in one of the Engineering colleges, when he can be finally absorbed as Instructor in Aeronautical Engineering. As there are other scholars also deputed for the Mech. Engineering Department of Engineering colleges and are likely to return to India in a short time, the request of Mr. Vasudevan for being released from the Education Dept. may be favourably considered to enable him to take up service in the Indian Institute of Science, Bangalore.

The enclosures sent with your above endorsement are resubmitted herewith.

15717

His basic  
qualifier is  
Electrical  
Engg



C. S. V.



115

12717

copy of the letter no. 12-7/45 dated 12-7-45 from the Principal, College of Engineering, Omdurman, is attached herewith.

When the employment form of Mr. Vasudevan was received for remarks, the Principal, College of Engineering, Omdurman, stated that the scholar might be appointed as instructor in mechanical engineering, relaxing the special rules. This opinion was based on the consideration that because the scholar was intended for assignment in the teaching personnel of engineering colleges, he would have to be employed somewhere in teaching fundamental subjects for the next few years until the opening of the aeronautical engineering courses. The scholar, as an instructor in mechanical engineering, is of service only to a limited extent as he is not fully qualified for the post. The services cannot, therefore, be utilized in any gazetted post with full advantage to this department until the aeronautical engineering course is opened.

OK

To the Secretary to Government, Gen. & Public Health Department, Fort St. George.

Copy of letter no. 12-7/45 dated 12-7-45 from the Principal, College of Engineering, Omdurman, is attached herewith.

When the employment form of Mr. Vasudevan was received for remarks, the Principal, College of Engineering, Omdurman, stated that the scholar might be appointed as instructor in mechanical engineering, relaxing the special rules. This opinion was based on the consideration that because the scholar was intended for assignment in the teaching personnel of engineering colleges, he would have to be employed somewhere in teaching fundamental subjects for the next few years until the opening of the aeronautical engineering courses. The scholar, as an instructor in mechanical engineering, is of service only to a limited extent as he is not fully qualified for the post. The services cannot, therefore, be utilized in any gazetted post with full advantage to this department until the aeronautical engineering course is opened.

For Your attention, see...

copy of the letter no. 12-7/45 dated 12-7-45 from the Principal, College of Engineering, Omdurman, is attached herewith.

When the employment form of Mr. Vasudevan was received for remarks, the Principal, College of Engineering, Omdurman, stated that the scholar might be appointed as instructor in mechanical engineering, relaxing the special rules. This opinion was based on the consideration that because the scholar was intended for assignment in the teaching personnel of engineering colleges, he would have to be employed somewhere in teaching fundamental subjects for the next few years until the opening of the aeronautical engineering courses. The scholar, as an instructor in mechanical engineering, is of service only to a limited extent as he is not fully qualified for the post. The services cannot, therefore, be utilized in any gazetted post with full advantage to this department until the aeronautical engineering course is opened.

By Air Mail

3/17/3

For signature

MS 18/3

94 CF.

116

EPH  
E2

Letter / Ref 38578 E2 / 47-14 Edu 7 16 3.49  
To

The Secy to the Govt,  
Ministry of Edu.,  
New Delhi 3.

Sir,

Course Scholarships - 1945-6  
Sri M. Vasudevan. Ref your  
letter no. F.3-11/S-27/45 S2 & 24.12.48.

I am directed to say  
that this Govt have no suitable post  
to offer to Sri M. Vasudevan. According  
under the bond executed by him he is  
liable to serve the Govt as a gazetted  
Officer if his services are not required



BY AIR MAIL.

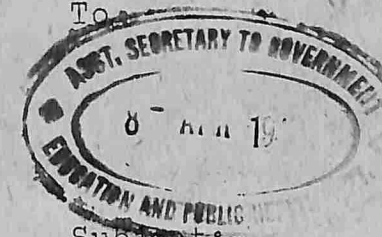
No.F.3-11/S.27/45-S.2.  
GOVERNMENT OF INDIA  
MINISTRY OF EDUCATION

NEW DELHI 3, THE 7<sup>th</sup> APRIL, 1949.

From

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

To



All the Provincial Governments (except  
the Government of Madras.)

Subject:-

UTILIZATION OF THE SERVICES OF MR. M. VASUDEVAN  
1945-46 MADRAS GOVERNMENT SPONSORED SCHOLAR IN  
AERONANTICAL ENGINEERING - AIR CRAFT DESIGN.

Sir,

I am directed to state that under this Ministry's  
Overseas Scholarship Scheme 1945-46, the Government of Madras had  
sponsored Mr. M. Vasudevan for studies in Aeronautical Engineering  
Aircraft Design in the United States of America. The scholar has  
been in the United States of America since 28th December 1948 and  
has now returned to India.

The Government of Madras are unable to offer  
him any suitable employment under them. The Government of India  
are, therefore, exploring the possibilities of securing such  
employment for him, as will put to profitable use the training he  
has received under Government auspices. In this connection Employ-  
ment Form with enclosures giving full particulars of qualifications  
and overseas training of Mr. Vasudevan is forwarded herewith.

I am to request that the Provincial Government  
may kindly consider whether Mr. Vasudevan's services could be sui-  
tably utilized by them. This Ministry will be pleased to furnish  
any further particulars that may be required in connection with  
the employment of the scholar.

Yours faithfully

*(Signature)*

( D. Madhavi )  
for Secretary.

Together with copies of the enclosures forwarded to:-

The Ministry of Communications/The Ministry of Works, Mines and  
Power/The Ministry of Industry and Supply/The Directorate General  
of Civil Aviation, Civil Aviation Directorate, New Delhi.

Kindly consider whether Mr. M. Vasudevan's  
services could be suitably utilised by the Government of India.  
This Ministry may be advised in the matter at a very early date.

Copy forwarded to The Secretary to the Govern-  
ment of Madras, Education and Public Health Department, Madras  
with reference to his letter No.385/8E2/47-14 Education of 16th  
March, 1949. The Provincial Government may kindly refer Mr.  
Vasudevan's case to the Hindustan Aircraft Ltd. Bangalore who  
may be able to utilise his services.

By order  
*(Signature)*

( D. Madhavi )  
for Secretary.

AS/29/3

by this Govt. Accordingly I am ~~directed~~  
to request you to be so good as to  
state whether his services will be required  
by the Govt.

103  
14/3/49  
circ  
15.3.49

AM  
16/3/49

Y.F.



GOVERNMENT OF INDIA  
MINISTRY OF EDUCATION

Overseas Scholarships(Provincial) - Application for Employment of Scholars.

N.B. -This application must be submitted(in quadruplicate) at lease **FOUR** months before a scholar's stay abroad is to come to an end.

|                                                                                                    |                                                                                              |                             |                   |      |                          |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------|-------------------|------|--------------------------|
| 1. Full Name (in block letters)                                                                    | METHIL VASUDHAN                                                                              |                             |                   |      |                          |
| 2. Date of birth.                                                                                  | 10th May, 1918.                                                                              |                             |                   |      |                          |
| 3. Father's Name                                                                                   | K. Kovunni Menon                                                                             |                             |                   |      |                          |
| 4. Full address in India to which correspondence should be addressed to the scholar to his return. | Methil House,<br>Chittillemchery<br>(Via) Palghat; Malabar,<br>Madras.                       |                             |                   |      |                          |
| 5.(i) Subject of Scholarship<br>(ii) Exact Branch.                                                 | Aeroyantical Engineering.<br>Aircraft structures and air plane design.                       |                             |                   |      |                          |
| 6. Year of Selection.                                                                              | 1945                                                                                         |                             |                   |      |                          |
| 7. Name of sponsoring Province.                                                                    | Government of Madras.                                                                        |                             |                   |      |                          |
| 8. Date of commencement of scholarship (Date of arrival in the country of study)                   | January, 1st 1946.                                                                           |                             |                   |      |                          |
| 9. Date on which the course of his studies is due to terminate.                                    | Dec. 1948(if not extended by another year which is required for finishing the work for Ph.D. |                             |                   |      |                          |
| 10. Approximate date of return in India.                                                           |                                                                                              |                             |                   |      |                          |
| 11. Qualification prior to selection.                                                              |                                                                                              |                             |                   |      |                          |
| (a). Academic (i) Degree & post-graduate examinations only.                                        | Name of College, Institute of University attended.                                           | Examination Passed.         | Division obtained | Year | Subjects Taken.          |
|                                                                                                    | College of Engineering Guindy; Madras.                                                       | B.E.                        | Hons              | 1942 | Electrical Engineering   |
| (ii) Post-graduate training or research.                                                           | Indian Institute of Science, Bangalore                                                       | Diploma in Aero-engineering |                   | 1945 | Aeronautical Engineering |
| (iii) Published Works(give names of the papers published, if any).                                 |                                                                                              |                             |                   |      |                          |



|                                                                                                    | Institution, Co., or Office where trained or employed. | Post or capacity in which employed | Pay if any drawn (with scale) | Period                       |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------|-------------------------------|------------------------------|
| (b) Practical training and industrial or professional experience gained (including apprenticeship) | Govt. of Madras Hydroelectric Dept.                    | Apprentice                         |                               | 1 year 1943-1944             |
|                                                                                                    | College of Engineering, Power, House, Guindy           | Shift Engineer                     |                               | 4 months 1944 Feb. to June   |
|                                                                                                    | Hindustan Aircraft Company Ltd. Bangalore              | Trainee                            |                               | 6 months 1945 April to Sept. |
|                                                                                                    |                                                        |                                    |                               |                              |

(c) Additional Qualifications not covered in (a) and (b) above.

(d) Post held at the time of selection

- (a) Name of the post
- (b) Pay last drawn and the scale of pay
- (c) Office or Government where employed
- (d) Did you resign, or go on study leave terms or on extraordinary leave?

## 12. Overseas Qualifications Acquired:

(a) Name of the country of study United States of America.

(b) Details of the course of study covered (up-to-date):

|               | Institution or University etc., attended.     | Duration From To       | Subject With Exact Branch | Some details of the course (if the space is not sufficient attach a separate sheet) | Degree Diploma or certificate if any obtained. |
|---------------|-----------------------------------------------|------------------------|---------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|
| (i) Academic. | Stanford University California                | 1946 Jan. to 1947 June | Mech. Eng. Aeronautics.   | Sheet attached                                                                      | M.Sc.                                          |
|               | Harvard University Cambridge                  | 1947 Sept. --          | Aeronautics               | " "                                                                                 | Working for a Doctor's degree in Aeronautics.  |
|               | (Also taking courses at M.I.T. Concurrently). |                        |                           |                                                                                     |                                                |

(ii) Practical Training

Boeing air craft.  
Douglas aircraft  
Hughes air craft.  
Northrop aircraft  
consolidated  
N.C.A. Moffet

(iii) Educational visits and study tours

field  
Baldwin Locomotive works.  
Westing house  
Research Laboratory.

(iv) Any papers published? Please give details or attach copies.

13. (i) Do you have any suggestions about your employment?

- (ii) Would you prefer a
- (a) Administrative
- (b) Technical or
- (c) Teaching Post?

Consistent with the subjects studied (which are mentioned in (12)).

(c), (b), (a) will be the order of preference for the time being.

14. Testimonials attached (Attach at least 2 testimonials from Professors or Supervisors under whom you worked during your studies overseas and give their names and addresses).

Two testimonials attached.

Sd/- M. Vasudevan

Date 8th April 1948.



123  
15 Tutor's Remarks:

Please see letters from Professors  
Niles and Timoshenko, attached.

16. Forwarding Report by the  
India Embassy or H.C.'s  
Office concerned on the  
Scholar's work and general  
conduct (if necessary any  
confidential report may be  
sent separately)

Recommended for a suitable  
post. Conduct satisfactory.

A.M.D'Rozario  
Deputy Education Liaison Officer

Signature of the  
forwarding authority.

Date

N.B. Separate sheets to be attached in case space in  
any column is found insufficient. Please denote  
carefully.

124  
STANFORD UNIVERSITY  
School of Engineering

DEPARTMENT OF MECHANICAL ENGINEERING

Stanford California

March 29, 1948

To Whom It May Concern:

I am writing you on behalf of Mr. Methil Vasudevan, who was  
a student in my classes of advanced mechanics at Stanford Univer-  
sity during the 1946-47 academic year.

Mr. Vausdevan was very good student, receiving the best  
grades in my classes. I feel that he is capable of doing excellen  
work on a Doctor's thesis, which I am willing to superwise.

Very truly yours,

S. Timoshenko  
Prof. of Theoretical and Applied Mechanics.



125

STANFORD UNIVERSITY

School of Engineering

DEPARTMENT OF MECHANICAL ENGINEERING

STANFORD, CALIFORNIA

To Whom it may Concern :

Mr. Methil Vasudevan was a student in my classes in Structural Theory, Advanced Structural Theory and Airplane Structural Theory for four quarters, from April 1946 to June 1947 Stanford granted him the degree of Master of Science in Mechanical Engineering: Aeronautics. Since June 1947 I understand that he has been a student at Harvard and the Massachusetts Institute of Technology specializing in Experimental Stress Analysis and Aerodynamics.

In my classes Mr. Vasudevan was a thoroughly satisfactory student with a high degree of ability and industry. It is my opinion that if he is allowed to continue his studies in this country for another year, the required investment in time and money will be to his advantage and also to that of his future employers. In this connection, I mean by "studies" either formal study in a University of practical experience in the aeronautical industry or in airline operation.

Very truly yours,

Alfred S. Niles  
Prof. of Aeron. Engrg.

-.-.-.-.-



10. Theory of Elasticity-  
Prof. Timoshenko
- Strain and Stress. Hook's law. Two dimensional problems; Photoelastic methods; stress concentration Elasticity, problem i.e. 3 dimensions St. Vincent's theory on torsion bending of beams.
11. Plasticity  
Prof. Timoshenko
- Brittle and Ductile? Materials various strength theories, Hysteric and fatigue; Plastic definition; bending of bars in Plastic region. Torsion and Creep?
12. Theory of Elastic Stability  
Prof. Timoshenko
- Stability of Compressed Columns The energy method, effect of initial curvature. Buckling of rect. plates, Stability and Cylindrical tubes.

Other subjects studied were: Advanced fluid motion, Complex Variable Advanced Calculus and Calculus of Variations.

Subjects studied at Harvard

1. Hydro aerodynamics  
Prof. Von Mises
- Vortex theory, two dimensional motion. Wing of infinite span motion in 3 dimension, wing of finite span. Theory of Viscous fluids.
2. Selected topics in aerodynamics
- Compressible fluid flow, shock waves turbulence
- Von Mises
3. St. Mechanics of airplane  
4. Design of Airplane

Subjects studied at M.I.T.

1. Applied Photo elasticity- Use of Commercial photo elastic apparatus with application to engineering problems.
3. Experimental stress analysis-
- Photoelasticity, brittle lacquer. strain gage techniques and experimentation analogies applied to static and dynamic loadings.

ARK ✓  
M. Vasudevan; B. Sc. MS (Stan); MS (Harvard)

Aeronautical Engineer

6, Venkatesa Naicker Lane  
G. T. Seven Wells. Madras

Place

Date 29<sup>th</sup>

20<sup>th</sup> May 1947.

To,

The Secretary

Education and Public Health Dept.

Govt of Madras;

Madras.

38846

Sir,

I am a Madras Government Scholar, who was sent to U.S.A for higher studies in Sept. 1945. I returned to this country on Dec 14<sup>th</sup> 1948. As per your communication directing me to wait for 5 months to see whether a suitable job could be found for me, I have been doing so for the past 5 months. I request you to be good enough to kindly release me from bond <sup>thus</sup> enabling me to take up employment elsewhere.

yours faithfully  
M. Vasudevan



132  
BY AIR MAIL

No.F.3-11/S-27/45-S.2.  
Government of India,  
Ministry of Education,

New Delhi 3, the 23<sup>rd</sup> May, 1949,

From

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

To

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

SUBJECT:- UTILISATION OF THE SERVICES OF MR.M.VASUDEVAN 1945-46  
MADRAS GOVERNMENT SPONSORED SCHOLAR.

Sir,

pp 116-117 ante I am directed to refer to your letter No.38578E2/47-14-Edu.  
dated 16th March, 1949, on the subject mentioned above, and to  
state that the Government of India have been informed by M/S  
Hindustan Air Craft Ltd., Bangalore that Mr.M.Vasudevan was offered  
a post on Rs.400/- per mensem. It is understood that he has  
declined to accept this offer. The firm have brought to the notice  
of the Government of India that Mr.Vasudevan is a candidate for  
a post in the Indian Institute of Science Bangalore. I am to  
request that the Provincial Government may kindly obtain, an  
explanation from the scholar for his refusal to accept the offer  
referred to above and negotiate with the firm so that the offer  
may be renewed and the scholar be persuaded to accept it if he  
has not already been employed.

Yours faithfully,

Vikram Singh  
(Vikram Singh)  
for Secretary,



39526  
ARK



133

135

E2PT  
(E2)

134

Memo 38578 E2/47 - 15 Feb. 3-6-49

Issue in Dec  
3/6

Advanced Studies Overseas -  
Sri M. Vasudevan - utilisation of  
services.

p132 cf

To  
Sri M. Vasudevan  
no. 6, Venkatesa  
Naicker Lane,  
G. F. Seven Wells  
G. T. Madras

21/1/49

A130cf

It has been brought  
to the notice of the Govt that  
Sri Vasudevan was offered a post on  
Rs 400/- p.m. by M/s Hindustan  
Aircraft Ltd, Bangalore and that he  
declined to accept the offer.

Sri M. Vasudevan is therefore  
requested to ~~state his reasons~~ explain why he refused  
for his refusal to accept the offer.

21/5/49  
2.6.49  
conf the firm in 3/6/49



135

136  
U  
E2  
AS  
M. Vasudevan; B. Sc. M.S. (Stan); M.S. (Harad)

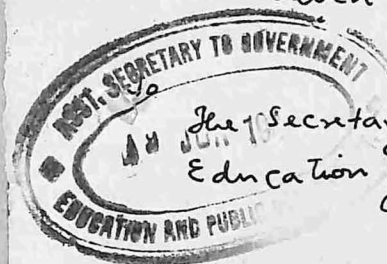
Aeronautical Engineer

6, Venkatesa Naicker Lane

Seven Wells, G.T. Madras.

Place

Date 17<sup>th</sup> June '49



The Secretary to Government

Education and Public Health Dept.

Govt. of Madras; Madras.

Ref:- Memorandum No 38578-E2/47-15 Edn.

46801

dated 3<sup>rd</sup> June '49.

p134 auti

Sir,

With reference to your memo referred to above,  
I beg to state that I have not so far  
received any formal offer of an appointment  
under Messrs. Hindustan Aircraft Ltd.

As such the question of declining  
such an offer did not arise as has been  
brought to the notice of the Government.

Yours faithfully  
M. Vasudevan



137

138

ASL

(124) E2

No: F.3-11/3-27/45-S.II.  
Government of India,  
Ministry of Education,

New Delhi 3, the 16<sup>th</sup> June, 1949,

From

The Secretary to the Government of India,

To

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

Subject:- Overseas Scholarship Scheme Utilization of the  
Services of Mr. M. Vasudevan 1945-46 Madras Government  
Sponsored scholar.

Sir,

In continuation of this Ministry letter of even number  
dated 23rd May, 1949, on the above subject I am directed to forward  
herewith for your information a copy of Office Memorandum No.  
22-G(16)/49 dated 7th June, 1949, from the Ministry of Communi-  
cations.

46803

p 132 cent  
p 140 wfr ✓

Yours faithfully,

Vikram Singh

(Vikram Singh)  
for Secretary,  
16/6

R.A.15/6/49



139

140

Copy of an Office Memorandum No. 22-G(16)/49, dated 7th June, 1949, from the Ministry of Communications to the Ministry of Education.

SUBJECT:- UTILIZATION OF THE SERVICES OF MR. VASUDEVAN, 1945-46 MADRAS GOVERNMENT SPONSORED SCHOLAR IN AERONAUTICAL ENGINEERING AIRCRAFT DESIGN.

The undersigned is directed to refer to the Ministry of Education's circular No. F.3-11/S-27/45-3.2., dated the 7th April, 1949, and to say that schemes in connection with "research and development work on gliders" and "supervision of the design development of prototype aircraft" are at present under the consideration of this Ministry. Should any of these schemes materialise, it would be possible to absorb Mr. Vasudevan in the Civil Aviation Department. Pending the finalisation of these schemes, the Ministry of Communications cannot offer employment to Mr. Vasudevan.

\*\*\*\*\*

✓



141

10  
Ka

Letter/ Ref 38518 Ka/49-16 Edn  
To 9.2.7.49

The Secy to the Govt,  
Ministry of Edn,  
New Delhi 3. (with enclosure)

Sir.

Concerns Scholarships - 1945-6.  
Sri M. Vasudevan.

32/47  
Ans  
6/7

p132 cf

p136 cf

With ref to your letter to  
f3. 11/5-27/45-52 of 23.5.49, I am  
directed to enclose a copy of letter  
of 17.6.49 from the scholar. Sri Vasudevan  
returned to India on 14.12.48. As the  
period of waiting is over and  
Vasudevan has asked for release from the band.  
I am directed to enquire whether the  
scholar may be released from the band.

107  
21.6.49

21/6/49  
107/6



No.F.3-11/S.27/45-S.II.  
Government of India,  
Ministry of Education,

New Delhi 3, the 26/6 July, 1949,

OFFICE MEMORANDUM

SUBJECT:- OVERSEAS SCHOLARSHIP SCHEME UTILIZATION OF THE SERVICES OF MR.M.VASUDWAN, 1945-46 MADRAS GOVERNMENT SPONSORED SCHOLAR.

The undersigned is directed to refer to the correspondence resting with Memorandum No.CD-2/7211 dated 14th May, 1949, from the Directorate General, Industries and Supplies, and to forward herewith a copy of letter dated 18th June, 1949, from Mr.M.Vasudwan addressed to the Government of Madras. If there is no objection, it is suggested that the general manager, the Hindustan Air-Craft Ltd., may be requested to make a formal offer of the post to the scholar, through the Secretary to the Government of Madras, Education and Public Health Department.

Sd/-(Vikram Singh)  
for Secretary

To

The Directorate General, Industries and Supplies,

✓ Copy forwarded to the Secretary to the Government of Madras, Education and Public Health Department, Madras with reference to letter No.38578-E.2/47-16 Education dated 2nd July, 1949,

By Order,

(Vikram Singh)  
for Secretary.

R.K.25/7/49

Further Communication  
with ref. to A. above may be awaited

20.7.49

18/6/49



145

145

145

145

145

145

145

145

145

145

145

145

145

145

145

145

145

145

146

146

No. F.3-11/3-27/45-92  
GOVERNMENT OF INDIA,  
MINISTRY OF EDUCATION.

NEW DELHI-3, the 10<sup>th</sup> September, 1949.

15 SEP 1949

The Secretary to the Government of India

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

SUBJECT: Advanced studies Overseas- utilization  
of the services of Mr. Vasudevan 1945-46  
Madras Government sponsored scholar-

7/256

142 anti  
148 infra

considered

Sir,

I am directed to refer to your letter  
No. 38578E.2/47-16 Education dated 2nd July, 1949  
on the above subject and to forward herewith a copy  
of Office Memorandum No. CD-2/Dy.13764/49 dated 2nd  
September from Directorate General of Industries  
and Supplies together with its enclosures.

It will be seen therefrom that a tentative  
offer of employment was made to Mr. Vasudevan by  
Messrs. Hindustan Aircraft Bangalore, as far back as  
February 1949, but the scholar did not accept the  
offer. I am therefore, to enquire if action against  
the scholar for violating the terms of the bond  
executed by him is desired by the Provincial Govern-  
ment. The question of release of the scholar will be  
only after a reply from the Provincial Government to  
the above question is received.

I am also to enquire whether the scholar  
is at present employed as a Scientific Officer under  
the Ministry of Defence. If so the details of  
fixt post including the pay, scale etc. attached to  
the post may kindly be forwarded to the Ministry.  
The Provincial Government may also state, whether  
the scholar had accepted the job with their knowledge  
and whether they agree to his accepting the post  
under the Ministry of Defence, vis-a-vis the Overseas  
Scholarship Scheme.

Yours faithfully,

Vikram Singh  
(VIKRAM SINGH)  
for Secretary.



147

148

Copy of Memorandum No. CD-2/Dy.13764/49 dated 2.9.49, from the D.P.I.&S. to the Ministry of Education.

subject: 1945-46 Overseas Scholar sponsored by the Government of Madras-Mr. M.Vasudevan.

With reference to the Education Ministry Memo No. F.3-11/S-27/45-S.II dated 26.7.49, the undersigned is directed to enclose a copy of letter No. BD/E/26 dated 25.8.49, from the General Manager, Hindustan Aircraft Ltd., Bangalore to the Ministry of Industry and Supply and to enquire whether in view of the position explained therein, it is still necessary for HAL to make an offer to this scholar through the Government of Madras.

An early reply is requested.

Copy of Letter No. BD/E/26 dated 11th August, 1949 from M/S Hindustan Aircraft, Bangalore, addressed to the Ministry of I. & S. Jaisalmer House, New Delhi

This is with reference to your letter No. Fy-4(4) dated the 6th August, 1949 regarding our offer of an appointment to Mr. Vasudevan Madras Government sponsored scholar in Aeronautical Engineering Aircraft Design. We enclose for your information a copy of a letter dated the 6th February, 1949 received from Mr. Vasudevan declining to accept our offer. We request you to kindly inform us if in spite of this letter of Mr. Vasudevan ~~is now employed as a Scientific Officer attached to the Defence Ministry~~ we have to make an offer to him again. It is understood that Mr. Vasudevan is now employed as a scientific Officer attached to the Defence Ministry.

Sd/ General Manager.

Copy of letter No. Nil dated 6th February 1949 from Mr. M. Vasudevan B.E. (S.Stan), M.E. (Flarod) Aeronautical Engineer, adras, C/P. T.K. Nair, 6, Venketess Lane, Seven Wells, G.T. Madras.

\*\*\*\*\*

Dear Sir,

I have been thinking over the offer of the job of Rs.400/- per month) that you were kind enough to make over the phone last Tuesday. I think the pay is low for me; also I note that you have not made any difference between me and Das or Radhakrishnan. So I think I would rather wait for a better chance.

Please allow me to express my deep appreciation of your efforts not to waste Technical skill. I regret very much I cannot come in under the terms offered.

Thanks.

Yours faithfully,

Sd/ M. Vasudevan.



149

~~6/8/10~~

~~ms~~

p 146 cf

Letter / Re No. 38578 E<sub>2</sub> / <sup>150</sup> Kdu 9 <sup>7.8.49</sup> ~~21.9.49~~ <sup>KPII</sup> <sub>E<sub>2</sub></sub>  
4.18.

To

The Secy to the Govt,  
Ministry of Edu  
New Delhi.

Sir,

Urusan Scholarships - 1945-6.  
Sri M. Vasudevan - Ref your  
letter no. F-3-11/S.27/45. Sd 9/10/49

I am directed to state  
that this Govt do not desire to take  
action against Sri M. Vasudevan on the  
ground that he violated the terms of the  
bond executed by him. They ~~are~~ have  
no information that the scholar is at present



152

1116

13 OCT 1949

To

SUBJECT: OVERSEAS SCHOLARSHIP SCHEME -  
UTILIZATION OF THE SERVICES OF  
OF MR. M.VASUDEVAN 1945-46 MADRAS  
GOVERNMENT SPONSORED SCHOLAR

79094

146 cont.

p 154 infra

The Provincial Government may also <sup>state if they</sup> desire to take any action against the scholar for violating the terms of the bond executed by him with the Provincial Government.

EPH  
C.

Vikram Singh 10/7/20  
(VIKRAM SINGH)  
for Secretary.

$\frac{163}{148.49}$  Area  $\frac{15.749}{148.49}$

12/10/14

151

4/10/19

y. f.

Asquith

W 299



Copy of office Memorandum No. 0583/10015/0-12 dated the 22.9.49 from the Ministry of Defence to the Ministry of Education.

SUBJECT Advanced studies overseas- utilisation of the services of Mr. Vasudevan- 1945-46 Madras Government sponsored Scholar.

The undersigned is directed to refer to Ministry of Education letter No. F3-11/S-27/45-S2 dated the 10th September 1949 addressed to the Secretary to the Government of Madras, Education & Public Health Department, Madras and copy endorsed to this Ministry and to state that Mr. Vasudevan has been offered a Gazetted post of Junior Scientist in the Defence Science Organisation, under this Ministry on Rs.425/- p.m. in the scale of Rs.275-25-500 (copy of letter attached).

Mr. Vasudevan reported for duty on the 25th of July 1949.



155  
No: F.3-11/S-27/45-S.2.  
Government of India,  
Ministry of Education,

New Delhi 3, the 25<sup>th</sup> October, 1949.

From The Secretary to the Government of India.

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

SUBJECT:- OVERSEAS SCHOLARSHIP SCHEME-RELEASE FROM BOND OF  
HM. MR. VASUDEVAN 1945-46 MADRAS GOVERNMENT SPONSORED  
SCHOLAR.

Sir,

I am directed to refer to your letter No. 38578 E2-4  
47-16 Education dated the 2nd July, 1949, on the above  
subject and to invite your attention to your letter No.  
38578 E2/47-18 Education dated 7th October, 1949, since Mr.  
Vasudevan is employed under the Government of India, Ministry  
of Defence, and the Provincial Government have accepted the  
post the question of release of the scholar from the bond  
does not arise at present.

Yours faithfully

Vikram Singh  
(Vikram Singh)  
for Secretary



From the Government of India, Edn. Department, No. P.3-11/45  
OD. IV dated 29.4.47.  
From the D.P.I., No. 44.C.1/46-61 dated 17-6-47 and T.M. dated  
2-8-1947.

Overseas scholarships - 1945-46 -  
Mr. M. Vasudevan.

Please see the Government of India's memo. on pages  
1-7 c.f. regarding Mr. M. Vasudevan, a candidate sponsored by  
the Government in 1945-46, under the overseas scholarships  
scheme, for studies in "Aeronautical Engineering - Aircraft  
structures and aircraft design". Since January 1946,  
he has been studying for a Master's Degree of the Stanford  
University, California, U.S.A. The period required for  
obtaining a Master's degree of an American University is  
roughly two years and therefore Mr. Vasudevan would be able to  
take his degree by December 1947, i.e. within two years  
which is the normal period of training allowed for overseas  
scholars.

Prof. Alfred S. Niles of the Stanford University  
considers the M.S. degree for which he is now working would  
qualify Mr. Vasudevan to obtain and hold a position as a  
junior engineer in an American airplane manufacturing company,  
and it is not intended to certify the completion of a training  
adequate for teaching aeronautical engineering in a university.  
He therefore thinks Mr. Vasudevan should continue for at least  
one additional year to obtain the degree of Engineer, and it  
would be better if he took two more years of work and qualified  
for the Ph.D. It may be noted in this connection that  
Mr. Vasudevan is intended for absorption in the teaching per-  
sonnel of the Govt. Engg. Colleges, on completion of his studies  
abroad. So far as the candidate's practical training is  
concerned, Prof. Niles recommends that Mr. Vasudevan should spend  
two years in America. ~~after this~~ Thus Prof. Niles recommends  
an extension of three to four years of the period of <sup>the</sup> scholarship  
~~in respect of~~ the candidate. The Govt. of India has forwarded  
a copy of the Prof.'s letter and has asked for this Govt.'s  
decision in the matter.







From the C.G.D., No F. 3-11/45-OD IV & 18-2-48

The letter from the C.G.D. on p 35 cf is submitted for perusal. No action is called for on it.

ES  
24-2-48

JM  
26/2/48

From the C.G.D., No F. 3-11/45-OD IV & 11-4-48

Please see the letter from the C.G.D. and its enclosures on pp 37-45 cf. This Crst. have already accepted an extension in the period of Mr. Vasudevan's Scholarship for one year (i) from upto Dec 48 on the assumption that he would complete his M.S. degree course by Dec 48. In their letter on p 35 cf. the C.G.D. reported that the Scholar took his M.S. degree in June 47 and that since then he had been doing Aircraft Design and Structure at the Harvard University. As it is now reported that it is extremely difficult to arrange for the Scholar's practical training, there seems to be no other alternative but to accept the C.G.D.'s proposal that the Scholar should ~~comp~~ return to India after completing his programme of work by June 48. It does not seem necessary to consult the D.P.I. Subject to orders, the draft telegram to be placed below is for approval.

With regard to the Scholar's letter ~~written in~~ ~~to the Honble the~~ ~~Prime Minister of India~~ ~~the Govt of India's~~ ~~in the last para of their letter on~~ ~~p. 39 cf may be concurred in - this for~~ ~~consideration whether the Scholar may be informed~~ ~~that he should not have written that letter.~~ ~~Min. may see -~~

ES  
26-4-48

26-4-48

JM  
27/4/48

Am  
27/4/48



Fin. no  
32829 E.D.  
28/4/48

27/4/48

31/4/48 (A)

Draft letter  
to be placed  
please  
me  
28/4/48

(Previous note of Finance on p 2 above)  
Please see the note of E & P on p 4 above  
This dept may agree with their views  
at A & B on p 4 above. The draft below  
may be accepted & the case returned  
to E & P.



27/4/48



51 cf

The telegram to the p.c to the  
S. of I have issued - Regarding  
B in the previous page, a draft  
letter to S. of I is subd. for  
approval - Am (Edn) may see.

1.5.48

JM  
31/5/48

11/6/48

1/5A

6-5-48

det. no. 38578 C2/47-6 ldn 8.5.48  
Cto. 36505/48. From the C.G.D. Ministry of ldn  
No F. 3-11/5.37/45-OD. 10 & 14.5.48.

Mr. N. Vasudevan is a candidate  
sponsored by this Govt in 1945-6 for  
studies in "Aeronautical Engg. aircraft."



structures and aircraft design". He took his B.Sc degree by Dec 47 and is enable him to undergo practical training an extension of period of scholarship was granted for one yr. As it was found impossible to arrange the practical training on the lines required by the Govt, the Education Officer recommended that the scholar should complete the programme of work he had undertaken by June 48 and then return to India. The recommendation was endorsed by the Cr of G and accepted by the Govt.

2. The Cr of G now state that the Indian Embassy, Washington, have again informed them that it is not possible to arrange for practical training for the scholar and have advised that the scholar should be allowed to stay in the U.S.A upto Sep 48 in order to enable him to complete the advanced research Ph.D. degree course at the Harvard University which would considerably enhance the value of his training. The Cr of G recommend this suggestion. It may be accepted by the Govt. The total period of training will still be less than 3 yrs. and within the period of extension previously approved by the Govt.

A draft telegram is submitted for approval. Finance may see it before circulation. It does not seem necessary to consult the D.P.I. in the matter.

3. The Govt of India have forwarded the scholar's employment forms. They may be

147 CF  
151 CF  
151 CF  
17-18 CF

Draft I

forwarded to the D.P.I. for necessary action. A draft memo is submitted for approval.

Edn no 38576/10.7.48  
20.5.48



Fin. no 38710/10.7.48  
21/5/48 E.P.H.

195/8  
20/5/48 S  
Previous note of Fin on p 5 above  
Please see the further letter

from the Govt. of India, with its enclosure, on pp 21-25 CF and the note of E.P.H. from the bottom of p 5 above. In the circumstances explained here this Dept may agree to the proposal of E.P.H. at P on p 6 above.

The draft telegram below may be accepted and the case returned to E.P.H.

As 20.5.48  
21/5/48  
E-P.H.  
C2

The file may be card to H.A. (E.M.) for approval of the draft telegram

21/5/48 S  
21/5/48

May be approved.

I had put up a note with regard to an application for ~~an~~ help from a student who had gone to America for aeronautical engineering through scholarship from private sources. I had said that in view of our need for such persons in our Engineering Colleges that that gentleman may be helped. I have not heard afterwards as to what has happened to that note. That information may be put up.

15A  
23-5-48



[ Telegram 26.5.48 ] p65 cf.  
Memo 38576/47 26.5.48 p66 cf.

Please see H. M.'s note on p 7 above.  
H. M. may be referring to the file linked  
below in which orders have issued in G.O.  
1072 E.O. of 1.5.48. Attention is invited to H.M.'s  
note in that file on p p 5<sup>th</sup> N.F.

3154

C. no 47550/45. Telegram from Mr. Grogg. 26.6.

Please see the telegram from the  
Crosby on pp 70-72 C.F. The notes on pp 5-6 of  
these explain the position in respect of this candidate.  
This Crosb has agreed to the scholar ship  
in the U.S.A till Sep 48 in order to enable  
him to complete his advanced research Ph.D.  
degree course in Aeronautical Engg at the  
Harvard University. The ~~note~~ Crosby now informs  
that the scholar will do advance research  
but that <sup>it will be incidental</sup> if he takes Ph.D. degree. ~~it is~~  
They presume that this Govt will have no  
objection to allow the scholar to continue research  
till Sep 48. The presumption may be confirmed.  
A draft telegram is submitted for approval.

W3  
5/6/48

28/6/48 S

W  
2/6/48

[Telegram of 29-6-48] p73 cf  
Pro 89440 of 48 from Mr. Gog, Director of  
Kan. P3-11/5 - 27/45. Sa & ds. 11-48. p88 cf.  
Sir A.H. Vandevan was selected  
in 1945-6 for advanced studies in "Aeronautical  
Engg. Aircraft Structures and Aircraft Design".

is is intended for absorption in the  
teaching personnel of King College. It is  
likely to reach India this month after his studies.  
The Govt have forwarded <sup>to this Govt</sup> ~~approval~~ of his appln  
to the Federal Public Service Commission for the  
post of Asst Director, Training & Edn, Civil  
Directorate, for such action as may be considered  
necessary by this Govt. There seems to be no  
objection in forwarding the appln. The Commission  
may be informed of the lead executed by the  
scholar with this Govt.

A draft letter to the Secy of the Commission is submitted for approval.

1/2  
5/12/42

[ The Employment forms in respect of this  
Scholar have been sent to the D.P.I for necessary  
action. So far, no proposals have been received  
from the Div. regarding his absorption in the Indian

90-91 cf. [detw 38578 C<sub>2</sub> / 47-10 Kda 9 11.12.46]  
98-99 cf. C. no 1312 / 49. From Gen. N. Vabrodecan of mil

Dr. H. Vasudevam, 1945 scholar, who has returned to India after completion of his studies, has submitted a claim for \$ 50, being the expenses incurred by him on typing & preparation of his thesis and has stated that he could not get the amount from the University as he had to leave the place in a hurry. In their letter of 13.12.48, the U.G. have issued instructions regarding payment of charges for typing / printing of thesis and the payment is subject to the conditions stated in their letter. This Court have agreed with these instructions. A copy of the scholar's



letter may be referred to the Crgg  
for their remarks. A draft letter  
is submitted for approval.

17/1/49

[Letter 38576 2/47. 12 Edu & 18. 1/49]. p 108 cf

to be DP 38578 2/47-13  
9.2.49

Em 89715/49.

From Sri M. Vasudevan 9.2.49

Sri M. Vasudevan was selected  
in 1945-6 as a sponsored scholar for  
advanced studies in "Aeronautical Engg -  
Aircraft structures and aircraft design".  
The intention was to ~~be~~ utilize his  
services on return as an Assistant to  
the Professor of Aeronautical Engg of a  
Grant Engg College. He returned to India  
on 14.12.48 on completion of his studies.  
An application submitted by him for the  
post of Asst Director, Training and Edu,  
Civil Aviation Directorate, was forwarded  
to the F.P.S.C. The scholar was called for  
interview at Delhi on 12.1.49. The result  
of the interview is not known.

2. The scholar now represents  
that the Indian Institute of Science,  
Bangalore, has offered him the post of  
Asst Professor in the Aeronautical Engg  
Dept of the Institute and that he is  
expected to report himself for duty before  
11.2.49. He requests that necessary orders  
may be issued enabling him to accept  
his appointment before 11.2.49.

3. As the scholar has specialised  
in Aeronautics, he has to be considered for  
employment first in the Aeronautical branch.  
The Aeronautical courses in the Engg Colleges  
have not been started yet and therefore  
the services of the scholar cannot be  
immediately utilised in that branch. It  
may be noted here that another overseas  
scholar, Sri R.G. Narayanamurti, who



returned before Sri Vasudevan after completing advanced course in Aeronautical Engg could not be absorbed in the Edn Dept for want of a suitable post. His case was referred to the Govt of India; they too had no suitable post and recommended that the FPSC was shortly advertising certain posts in the Bangalore Aircraft Factory and that the scholar's employment forms might then be forwarded to the Commission. It has been proposed to release Sri Narayanaswami from the bond. There seems no purpose therefore in consulting the Govt of India regarding the employment of Sri Vasudevan.

The employment forms of Sri Vasudevan have been forwarded to the D.P.I. but no definite proposals have been received from him regarding his employment. However, in his letter no. 3870 C./48 of 13.1.49, the D.P.I. has suggested that Sri Vasudevan may have to be considered for a post of Mechanical Engineer in the Edn Dept. The scholar's basic qualification is B.E. (Electrical) and he may not fit in in a post in the Mech. Engg section. However, the D.P.I. may be consulted w.o. whether the scholar can be offered a suitable gazette post in the Edn Dept.

PM 8/2/49 S  
DP

Edn no. 38528 12/47-13  
9.2.49

[D.P.I.'s reply at p 114 cf]



file not available  
A  
For the  
release  
before  
the  
limit

file being  
maintained separately

p 53 cf



Please see the summarising notes from p 11 ante. The D.P.I. states that the services of Sri M. Vasudevan cannot be fully utilised in any gazette post with full advantage to the Dept until the Aeronautical Engineering Course is opened. For orders whereby the D.P.I.'s orders, which are subject to the Govt of India, are consulted and require the scholar's services. If they too do not require the scholar, may be released from the bond. It is proposed to order for the circulation of the order to the D.P.I. and the Govt of India.

PM 4/2/49 S



pp 116-117 cf  
p 132 cf  
Issued as letter/Ref. 38578 E2  
From the Govt of India, NO. F.3-11/8-27/48-5  
of 23.5.49  
The order from p 11 ante and the letter from the Govt of India at p 132 cf may be read. Sri M. Vasudevan may first



14

be asked to explain the reasons for rejecting the offer of M/s Hindustan Aircraft Ltd, Bangalore. A draft memo is submitted for approval.

SRB  
31/5/49

MM  
31/6/49

COA  
2.6.49

[Memo No. 38576 E2/47.15 Edn & 3.6.49]  
from Sri M. Vasudevan & 17.6.49

Please see the G.O. D. letter at p 132 cf, the memo at p 134 cf. to Sri M. Vasudevan and the scholar's reply at p 136 cf. The G.O. wants this Govt. to obtain the explanation of the scholar for his refusal to accept the post offered by the Hindustan Aircraft Ltd and to negotiate with the firm so that the offer might be renewed and the scholar persuaded to accept it if he had not already been employed.

A copy of the scholar's reply may be sent to the G.O. D. The scholar returned to India on 14-12-'48. The 'period of waiting' of 5 months is over and the scholar has already applied for release from the bond. It does not therefore seem necessary to negotiate with the Hindustan Aircraft for renewal of the offer of a job to the scholar. The G.O. D. may be asked whether in the circumstances the scholar may be released from the bond. Subject to orders a draft letter is submitted for approval. Notes from page 11 and 12.

MM  
24/6/49

28  
16/11/49  
H.N. (E+L)

[Letter No. 38576 E2/47.16 Edn & 2.7.49]

15

28

From the Govt. of India, Ministry of Education No. F3.11/S.27/45-S2 dated 10-9-1949.

...

Please see the letter cited regarding Sri M. Vasudevan, a 1945-46 scholar. There are three points for consideration in the Govt. of India's letter.

(1) that a tentative offer of employment was made to the scholar by M/s. Hindustan Aircraft, Bangalore, but the scholar did not accept it. The Govt. of India enquire if action against the scholar for violating the terms of the bond is desired by the Madras Government.

(2) Whether the scholar is at present employed as a Scientific officer under the Ministry of Defence, and if so, to furnish details of the post, and

(3) Whether the scholar accepted the post referred to above with the knowledge of the Madras Govt. and whether they agreed to his accepting it.

Item (1) above.

Sri M. Vasudevan was selected in 1945-6 as a sponsored scholar for advanced studies in 'Aeronautical Engineering - Air-craft Structures and Aircraft Design', with the intention to absorb him in the teaching personnel in the Engg. Colleges. After completing his studies in the U.S.A. he returned to India on 14-12-48. On 7-2-49 he addressed this Govt. a letter to the effect that he understood that there was difficulty in offering him a suitable post, that he had been searching for a suitable job himself, that the Indian Institute of Science, Bangalore, had offered him the post of Asst. Professor in the Aeronautical Engg. deptt. of the Institute and that therefore necessary orders might be issued to enable him to accept that offer before 11-2-1949. As the period of waiting was not over then and as this Govt. were exploring possibilities of this employment, his request was not complied with. The D.P.I., who was consulted about his employment in the Edn. deptt., reported that his services could not be utilised in any gazetted post with full advan-



16  
advantage to the department until the Aeronautical Engg. course was opened. The Govt. of India <sup>will</sup> therefore informed that this Govt. had no suitable post to offer to the scholar and <sup>asked</sup> ~~enquired~~ whether they could utilise his services according to the terms of the bond. The Govt. of India consulted the other Provl. Govts. in the matter. On 20-5-1949, the scholar applied to this Govt. for release from the bond as the period of waiting of 5 months was over and no post was offered to him. About the same time the Govt. of India reported that they had been informed by M/s. Hindustan Aircrafts, Bangalore, that the scholar was offered a post on Rs. 400 p.m. and that he had declined to accept it. They desired this Govt. to obtain the scholar's explanation for his refusal to accept the offer and to negotiate with the Hindustan Aircrafts so that the offer could be renewed and the scholar persuaded to accept it if he had not already been employed. The scholar's explanation was called for. In his reply he stated that he had not received any formal offer of an appointment under the Hindustan Aircrafts and therefore the question of declining such an offer did not arise. A copy of his reply was forwarded to the Govt. of India and they were asked whether the scholar could be released from the bond as the period of waiting was over and he had asked for release. The Govt. of India's present letter at p 146 cf. is a reply to it. From the ~~enclosure~~ enclosure to that letter at p 148 cf. it is observed that the Hindustan Aircrafts offered him, over the phone, a post on Rs. 400 p.m. and that the scholar declined to accept it stating that the pay was low and that they did not make any difference between him and two other ~~candidates~~ candidates.

The point for consideration is whether this offer could be deemed to be such that action could be taken against the scholar on the ~~gum~~ ground of <sup>his</sup> having violated the terms of the bond executed by him by refusing to accept it. Under the bond executed by him he has to serve this Govt. or the Govt. of India or to take up other employment indicated by any of them for a minimum period of 5 years and, if he refuses to do so,

17  
he is liable to be called upon to refund all monies spent on his ~~maxis~~ training and the interest on the amount calculated at fixed Govt. rates then in force for Govt. loans. The scholar is ordinarily bound to accept the offer of the Hindustan Aircrafts under the terms of the bond as that offer was made at the instance of the Govt. of India and within the period of waiting. The pay of the post is stated to be low by the scholar but that cannot be accepted as a sufficient ground for refusing the offer as the non-government bodies have only to offer a post on a scale of pay which is comparable to that of <sup>a</sup> gazetted post under Govt. and the pay offered in this case was Rs. 400 p.m. whereas under this Government the starting pay in all cases is below Rs. 300 p.m. The offer was made over the phone but the scholar replied in writing. On a matter like this, wherein a legally executed bond is involved, with all its legal implications, it would seem to have been better if <sup>the offer had been</sup> ~~it was~~ made in writing. The Scholar states that no formal offer was made to him. There is no information about the exact nature and ~~fix~~ terms of the offer. When the scholar is asked about his willingness to accept any appointment, it is open to him to accept ~~it~~ or to reject it for specific reasons and, in this case, it is perhaps natural for the scholar to expect a higher pay and other facilities than those offered to the other two candidates mentioned by him, who do not presumably possess his qualifications. The offer was not renewed within the period of waiting. In the circumstances, it does not seem that any action on the charge of <sup>his</sup> having violated the terms of the bond <sup>can</sup> ~~need~~ be taken against him. Moreover, the Scholar is at present stated to be employed as a scientific officer under the Ministry of Defence. This Govt. have no information about this. If this is correct, his rejection of the ~~offer~~ offer made by the Aircrafts does not call for serious attention as he is now <sup>in</sup> ~~under~~ the direct employment of the Govt. of India. For orders whether the Govt. of India may be informed that this Govt. do not desire to take action against the scholar.



Items (2) & (3): on p 15 anti.

The Govt. of India may be informed that this Govt. have no information. As stated under item (1) above, the services of the Scholar have already been placed at the disposal of the Govt. of India, as this Govt. have no suitable post to offer him and therefore this Govt. can have no objection to his accepting a post under the Ministry of Defence.

For orders. Finance may see before circulation to Mr (21) & Mr (21).



Edm. no. 38578 G2/47-18  
21.9.49

Finance (E.L.)

(Per Finance note on p 7 above)

The typed notes of Mr. H. from p 15 above may be perused. Finance may agree with the view of Mr. H. at A. + B on p 17-18 above.

24.9.49  
24.9.49

24.9.49

24.9.49

The typed notes from p 15 anti. may be perused. A draft letter to the Govt. of India is submitted for approval. For orders as to circulation.

24.9.49  
24.9.49  
28.9.49

4/10/49

HM (E.L.)

HM (P.W.)

HM (E.L.)

HM (P.W.)



2/10

92

[Letter no. 38578 G2/47-18 Edm. no. 7.2.49]

From the C.G. Ministry of Edm.  
no. P-3-11/5.27/45. S2 & 25.2.49

Please see the letter referred to above. The scholar, Sri M. Vasudevan, asked for release from the bond in his letter of 20.5.49 at p 130 cf. Since he has accepted an appointment under the Ministry of Defence, no reply seems to be necessary on the question of release.

These papers may be recorded.  
Order Hs 3308 Edm. no. 29-10-49  
Recorded

Sub.  
Overseas Scholarships  
1945-6 Sri M.  
Vasudevan. Papers  
relating to his  
Studies -  
Records.

27.9.49  
28.9.49

28.10.49



PA. 01-92 8088



128  
129  
The following main subjects were studied at Stanford:

1. Structural Theory - Professor Niles  
Review of elementary St. Theory with special attention to the Development of beam theory and its application to beams of unsymmetrical section.
2. Advanced St. Theory Professor Niles I  
Beam deflections, continuous beams, bending of beams, shear flow torsion, stress ratios.
3. Advanced St. Theory II - Prof Niles.  
Thin Walled Columns, Compression Panels, analysis of redundant structures, rigid frames and beam columns.
4. Airplane St. Theory- Prof. Niles.  
Incomplete tension field, shell analysis for torsion and bending ring analysis, elastic instability, torsional column failure.
5. Introduction to Aerodynamics - Professor Reid  
History of flight, mechanics of flight. Characteristics of air fields? parasite drag elements of static instability Controllability and performance.
6. Wing Theory- Prof. Reid  
Theory of lift and resistance of monoplane and biplane, downwash. Wing profile theory Span Load distribution, effect of taper, twist and sweep back on pitching moments.
7. Advanced aerodynamics- Prof. Reid.  
Approximate and rigorous method of performance prediction detail analysis of St. stability, boundary layer and skin friction, scale effect, auxiliary lift increasing devices.
8. Air-craft Propellers-Prof. Reid  
Principal theories of Prop. action, aerodynamic characteristics of prop. as affected by pitch form and no. of blades.
9. Aerodynamic Lab.- Prof. Reid.  
Operating characteristics of wind tunnel, aerodynamic characteristics of bodies of form as well as those of wings, props., and air planes.

P. T. O.