

Not Away  
avg

Scott II-27-58,004-4-11-46.

E.&.P.H.

(194 8 ) Department.

SERIES.

G.O. NO.

Ms.237 Edn.

Dated

3rd February 1948.

---

[Despatch Abstract.]

~~Technical Education~~

Technical Education - Overseas - 1946-47 - Mr. M.V. Ramá  
Rao - training for six months in Swizerland - Permitted -  
Papers 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. |
|------|-----|-------------|-------|------|-----|-------------|-------|
|      |     |             |       |      |     |             |       |

BY AIR MAIL.

NO.F.7-8/46-ODIV.  
GOVERNMENT OF INDIA,  
MINISTRY OF EDUCATION,  
New Delhi 3, the

DEC., 1947.



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 Department,  
MADRAS.

SUBJECT: ~~XX~~ OVERSEAS SCHOLARSHIPS 1946-47 -  
MADRAS GOVT. SCHEME -  
MR. M.V. RAMA RAO.

Sir,

In continuation of this Ministry's letter of even number, dated the 20th October, 1947 on the above subject, I am directed to forward herewith a copy of letter No.E.A. 7593, dated the 14th November, 1947, received from the High Commissioner for India in London by this Ministry. The Provincial Govt. may please consider this proposal for practical training of the scholar in Czechoslovakia for a further period of 6 months from the viewpoint of the employment he is to take up on his return from abroad, and inform this Ministry immediately whether they would like the scholar to continue or return to India after completing his present course of practical training in the U.K.

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

B.K. Hingray  
for Secretary.

Copy of the D.O. letter No.E.A.7593, dated the 14th Nov., 1947, from M.L.Obroi, Esqr., Office of the High Commissioner for India, LONDON, to P.Gangulee, Esqr., Ministry of Education, New Delhi 3.

This is with reference to our previous correspondence regarding Mr. M.V. Rama Rao, 1946 Madras Scholar resting with our letter of 25th Sept.

You will remember this scholar was placed with the Airways Training Limited, (B.O.A.C.) for six months training in Ground Engg. This period is due to end towards the end of March, 1948. This leaves six months of the total of two years scholarship period for this scholar which is due to end in Oct, 1948. With the B.O.A.C. he is receiving training in maintenance. We tried our best to place him with a manufacturing concern in this country for a period of six months, but were not successful.

Mr. Rama Rao has been in touch with a Czechoslovak Aircraft Manufacturing concern called Aviation Works, National Corporation, who have offered to consider his application for practical training in their Drawing Office at their Jinonice Works. In this concern the Scholar would be able to get some practical training on the manufacturing side, which he has not been able to obtain in this country, and as a matter of fact is not likely to obtain. The Czechoslovak firm, which as you will notice from the enclosures, is now nationalised, have not definitely accepted this Scholar, but there does seem to be a possibility that if we support his application they would accept him. The scholar has already been interviewed by Prof. M.S. Sundaram who is inclined to support his application for training in this Czechoslovakia firm.

P.T.O.

Keeping in view the general difficulty of obtaining the type of training which we may be able to procure for this candidate in Czechoslovakia, we are Prepared to recommend Mr. Rama Rao's application. Would you kindly let us know as soon as possible if the Madras Govt. would give us the necessary sanction so that we can go ahead and try our best to finalise the matter with this firm.

@@@

THAKUR, 3.

(51) 4

C/o W./Cmdr. Day,  
Airways Training Ltd., Aldermaston,  
Berkshire, England.  
11th Nov., 1947.

The High Commissioner for India,  
Education Deptt., India House, Aldwych, W.C.2.

Dear Sir,

I am one of the Indian Students in England studying Aeronautical Engg. on a Govt. Scholarship. I arrived in this Country in Oct., 1946 and shall be finishing the present course of my training by the end of March, 1948. For the six remaining months of my scholarship I desire to work in a Czechoslovak Aero-Engine factory in Prague, and request your sanction for the same. I base my request on the following grounds :

(1) Few British firms are prepared to take anyone for practical training, and none into their drawing and design offices, for a long time to come. The Czech firm is prepared to take me into their drawing offices, which is the best place to be in if one wants to know everything about an engine. (Copy of letter from Czech firm enclosed)

(2) As for the credentials of the Czech Aircraft Industry, it was reputed before the war for the fine small powered engines it produced. Even now their engines are second to none in their particular class. We have to start our own Aircraft Industry in India and we have to begin with light aircraft and small powered engines for a start. A study of Czech industry would be of great help towards this. I am enclosing herewith a letter from W/Cmdr. Day, Chief Engineer of the combined British Overseas Airways and British European Airways Training School, where I am working at present, giving his opinion on this point.

P.T.O.

(2) 6

(3) The Czechs are re-starting their Industry almost from scratch, after the many years of occupation, and working with them now would give me a good deal of valuable experience of the problems involved in making a start, which is what we are intending to do in India.

(4) Contact with foreign nations, especially in technical and scientific fields, should be, in my opinion of value to us. A study of the Czech "two Year Plan" for economic reconstruction, which is now nearly half way through, would show how thorough they are at organising and planning their industry to put their nation back on its feet in the comparatively short time of two years after a long period of seven years of occupation.

As for the language question, there need be no difficulty as I have been studying Czech (Bohemian) for some time and am fairly conversant with it.

Considering these, I request you to permit me to work in Czechoslovakia after March, 1948 when I finish my present training. As time is of prime importance, I entreat you to take prompt action on this application, that I may not have to mark time after I finish here and before I go on to my next assignment.

Thanking you

Yours obediently,

Sd/- M.V. RAMA RAO.

GOVT. SCHOLAR E.A./7593.

COPY.

LETECKEZAVODY.

NARODNI PODNIK.

ZAVOD JINONICE

Mr. M.V. Rama Rao,

x C/o. W./Cmdr. DAY, AIRWAYS TRAINING LTD.

ALDERMASTON - BERKS.  
ENGLAND.

14th Oct., 1947.

YOUR EMPLOYMENT IN OUR WORKS.

Dear Sir,

Referring to your application of Sept., 29th 1947, we beg to inform you that we could employ you in the Drawings Office of our National Corporation.

Owing to the fact that you are not Czechoslovak citizen your definite engagement in our Works is subject to the Czechoslovak Authorities consent.

We beg you, therefore, to fill up the enclosed list of queries and to return it to us with two of your photographs. At same time, please, communicate us with, when you intend to take the possession of the employ which is reserved for you in our Works.

As soon as all these formalities are fulfilled we shall communicate you with.

In the meantime, we are looking forward to our mutual co-operation and are,

Yours faithfully,

AVIATION WORKS,  
NATIONAL CORPORATION  
JINONICE WORKS.

Encl:

1. List of Queries.

@@

COPY.

AIRWAYS TRAINING LTD.

AIDERMASTON AERODROME. BERKS.

ALD. TEM. 2250.

. 11th Nov., 1947.

The High Commissioner for India, Education Deptt.,  
India House,  
Aldwych W.C.2.

Dear Sir,

MR. RAMA RAO.

I understand from Mr. Rao that he is desirous of spending a short period in a Czechoslovakian aero-engine factory in Prague. The firm concerned has, I believe been nationalised since the war. Prior to the war it produced the Walter light aero engine which had a very sound reputation.

From what Mr. Rao has told me I should think that any experience which he can gain with this firm should be of considerable use to him. I am not, of course, in a position to judge the present standard of work at this factory but should be very happy to investigate should you wish me to do so. I think you can be reasonably assured that Mr. Rama Rao's time will be well spent.

Yours faithfully,  
for Airways Training Ltd.

Sd/- M.D. DAY.

CHIEF ENGINEER.

TH'3

NOTE OF CZECHOSLOVAK AIR CRAFT INDUSTRY.

Extract from Jane's "All the Work Aircraft" Compiled and Published by Sampson Low, Marston & Co., Ltd., 43 Ludgate Hill, London, E.C.4. and also in New York and Ontario.

The Czechoslovak Aircraft Industry, which was established in 1918-1920 reached a high technical standard between the two World Wars and its production capacity was quite considerable. It was able to meet the requirements of Czechoslovak Air Force and Civil Aviation, including flying clubs and private "owners", and furthermore, exported aircraft and aero-engines to almost every country in the world.

Czechoslovak aircraft and engines were also manufactured under licence in other countries, and they gained numerous international records in sporting and racing events".

\*\*\*

'TH'3

Draft Telegram

Edmund  
New Delhi

10

Telegram  
and P.C. in  
22/12

plcf

Vide minute on  
p 2 cf

Pc to Secy to Govt. India, E  
Ministry of Edu., 15/12/47  
New Delhi, 3.

W/ (H) Edhealth

Reference your letter (No)  
F.78/46-0 DIV (dated) Sixth instant  
regarding (Mr) M.V. Rama Rao, 1946  
Scholar Stop This Govt agree (to)  
Scholar (further) Training & for  
Six months & in Czechoslovakia Stop  
(It is) Presumed (that the Govt of)  
India & will bear half (the)  
Cost of this period also

in the United Kingdom in March 1948.

Therefore you may kindly make the necessary arrange-  
ments under advice to this Ministry.

I am also to refer to your letter No. E.A.7593 dated  
17th December, 1947 regarding the same scholar and to request  
you to furnish this Ministry with a progress report (in duplicate)  
in respect of Mr. Rama Rao's work at the Imperial College  
of Science, London. This may kindly be done urgently.

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

Sd/-

for Secretary.

NOTE OF CZECHOSLOVAK AIR CRAFT INDUSTRY.

and published by the Czechoslovak Air Force and also in New York and Ontario.

The Czechoslovak Aircraft Industry, which was established in 1918-1920 reached a high technical standard between the two world wars and the production capacity was quite considerable. It was able to meet the requirements of Czechoslovak Air Force and Civil Aviation, including flying clubs and private "owners", and furthermore, exported aircraft and aero-engines to almost every country in the world.

Czechoslovak aircraft and engines were also manufactured under license in other countries, and they gained numerous international records in sporting and racing events."

*Tele. 8/12/46  
and P.C. 10/12/46*

Draft Telegram  
Educind  
New Delhi

GOODH (C2)

p1CF

Reference your Letter (Mr) F. 7-8/46 - O.D.IV (dated) Sixth Assistant regarding (Mr) M.V. Rama Rao, 1946 Scholar Stop This Govt. agree (to) Scholar's (further) training for 6 months & in Czechoslovakia stop (It is) Presumed (that the Govt. of India & will bear half (the) Cost of this period also

*Vide Minute on p 2 CF*

Pc to Secy to Govt. India, Ministry of Education, New Delhi, 3. 15/12/46

*W. J. H. M. Edheath*

DOH (12)

9

10

Draft Telegram

Edmund  
New Delhi

Telegram  
and  
22/12

plcf

Vide Memo on  
p 2 CF

Reference your Letter (Mr)  
F.78/46-0 DIV (dated) Sixth visitant  
regarding (Mr) M.V. Rama Rao, 1946  
Scholar Stop This Govt agree (to)  
Scholar (further) training & for 7  
Six months & in Czechoslovakia Stop  
(It is) Presumed (that the Govt of)  
India & will bear half (the)  
Cost of for this period also

Pc to Secy to Govt of India, E  
Ministry of Edu, 15/12/46  
New Delhi, 3. 15.12.46

W/ (15/12/46) Edheath

COPY

ARMY TRAINING LIAISON

ALUMINUM AMMUNITION BRANCH

ADD. TEN. 2. 50. 11th Nov. 1947.

The High Commissioner for India, Madras  
India House,  
Adyar, W.O.S.

Dear Sir,

MR. RAMA RAO.

I understand from Mr. Rao that he is desirous of  
spending a short period in a Czechoslovakian aero-  
engine factory in Prague. The firm concerned has, I believe,  
been nationalised since the war. Prior to the war it pro-  
duced the Walter light aero engine which had a very sound  
reputation.

From what Mr. Rao has told me I should think that  
any experience which he can gain with this firm should  
be of considerable use to him. I am not, of course, in  
a position to judge the present standard of work of this  
factory but should be very happy to investigate should you  
wish me to do so. I think you can be reasonably assured  
that Mr. Rama Rao's time will be well spent.

Yours faithfully,

For Air Force Training Liaison

84/- N.P. Day.

CHIEF ENGINEER

*[Handwritten notes in a ledger format, including dates like 1947, 1948, and names like M.V. Rama Rao, and various administrative entries.]*

By air mail.



No. 7-8/460DIV  
Government of India,  
Ministry of Education,

NEW DELHI, the

January, 1948.

From

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

To

The High Commissioner for India,  
Education Department,  
India House,  
LONDON.

Subject:- Overseas Scholarships 1946-47 Madras Government  
Scheme - Mr. M.V. Rama Rao.  
=====

Sir,

I am directed to refer to your letter No. E.A.  
7593 dated 14th November, 1947 regarding the above scholar  
and to state that the Madras Government agree to Mr Rama  
Rao's obtaining practical training in Czechoslovakia for  
six months after finishing his present practical training  
in the United Kingdom in March 1948.

Therefore you may kindly make the necessary arrange-  
ments under advice to this Ministry.

I am also to refer to your letter No. E.A.7593 dated  
17th December, 1947 regarding the same scholar and to request  
you to furnish this Ministry with a progress report (in duplicate)  
in respect of Mr. Rama Rao's work at the Imperial College  
of Science, London. This may kindly be done urgently.

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

*[Signature]*

for Secretary.

B.  
1.48

A.T.U.

11  
=2=  
No. 7-8-46/ODIV

Copy forwarded to the Secretary to the Government of Madras, Education and Public Health Department, Madras with reference to his telegram dated 22nd December, 1947. The Government of India agree to share the cost of training for Mr. Rama Rao for six months in Czechoslovakia.

A copy of letter No. E.A.7593 dated 17th December, 1947, from the High Commissioner for India in London, to this Ministry is forwarded herewith for information.

By order,

B.K. Hingorani  
for Secretary.

12 12  
Copy of letter No. E.A. 7403<sup>59</sup> dated 17th December, 1947 from the High Commissioner for India, London, to The Secretary to the Government of India Ministry of Education, New Delhi, India.

=====

I am directed to acknowledge receipt of your letter no. F.7.8/46-OD4 dated 20th October, 1947, regarding Mr. M.V. Rama Rao.

I am to enclose herein as desired in the endorsement of the above letter a copy of the report of the progress of this scholar.

Airways training.

Limited.

Aldermaston Aerodrome, Berks.

ALD.SEL.369

High Commissioner for India,  
Education Department,  
India House,  
Aldwych, W.C. 2.

4th December, 1947.

CONFIDENTIAL

Engineering Scholar - M.V. Rama Rao.

Dear Sir,

With reference to your letter E.A.7593 of the 26th November, requesting a progress report on the above named who is at present undergoing training, the enclosed interim training report sets out of the subject matter covered to date together with internal examination results.

On the practical application of engineering subjects Mr. Rao displays keen enthusiasm and the ability to assimilate knowledge. In class room subjects he is making good progress. experiences a slight difficulty in verbal self expression and at the moment produces much better results on a written test paper than in oral examination.

Yours faithfully,  
for AIRWAYS TRAINING LTD.  
(Sgd) M.D. DAY.  
Chief Engineer.

# AIRWAYS TRAINING LIMITED

## FINAL TRAINING REPORT.

NAME RAMA RAO M.V.  
RANK OR GRADE G/E BASE  
COURSE Practical Theoretical and AT Aldermaston  
workshop training . FROM 15.9.47  
RESULT TO 28.11.47

### SUMMARY OF TRAINING

#### Practical Workshop Training.

Pratt and Whitney, Merlin and Hercules Power Plant Building  
~~Strippingx-Enginex-runningx-Cockpitx-layoutx-50xHrsx-check-~~ 220 hrs.  
Stripping. Engine preparation and Overhaul  
Daily checks. Engine running. Cock pit layout. 50hrs. check  
~~Dailyxcheckx-Enginex-runningx-Cockpitx-layoutx-~~  
on Hercules Engine. General maintenance. Plug changes. 88 hrs.  
Propeller change. 21hrs.  
Practical work on Vicking Hercules Engines as above and in addition functioning and dismantling 7 hrs.  
Dove cockpit controls. 35 hrs.  
Practical Work(Cylinder block dismantling)on Merlin Engines. 7 hrs.  
Gipsy 71 Engines.

#### Phase III Hercules 41

Crank case, Crankshaft and Oiling System. R.A.E. injector  
Mangneto timing. practical Magneto Timing 63 hrs.) 72hrs.  
Home work 96.6%  
Phase III Hercules 41 Course ending 22.12.47

#### REMARKS.

Practical work has been carried out to consolidate theoretical knowledge and to cover as much engine defect work as possible.

Original phasing for second period of training phase III Engines, was cancelled and Phase III Hercules substitute in order that he could obtain a greater detailed mechanical knowledge of the modren high powered aircraft power plant

Training to proceed as planned.

Date 4th December, 1947

(Sgd.)  
Senior Engineering Instructor.

#### RECOMMENDATIONS

Senior Engineering Instructor.

Date

H.K.B.  
16.1.48



NO.F.7-8/46-ODIV.  
GOVERNMENT OF INDIA,  
Ministry of Education,  
New Delhi 3, the 10<sup>th</sup> 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 Government of Madras,  
Education and Public Health Deptt.,  
MADRAS.

SUBJECT: OVERSEAS SCHOLARSHIPS 1946-47 -  
MADRAS GOVERNMENT SCHEME -  
MR.M.V.RAMA RAO.

Sir,

In continuation of this Ministry endorsement  
of even number, dated the 17th Jan., 1948 on the  
above subject, I am directed to forward herewith  
for information a copy of letter No.E.A.7593, dated  
the 13th Jan., 1948 from the High Commissioner  
for India in London to this Ministry.

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

D.K.Hingorani  
(D.K.Hingorani)  
for Secretary.

EDPH (C)

May be filed with (X) after

ES  
25/2/48  
Cia  
26.2.48

27/2/48

'THAKUR'9.

Copy of the letter No.E.A.7593, dated the 13th Jan.,1948, from the Office of the High Commissioner for India, London, to the Ministry of Education, New Delhi.

Please refer to the correspondence resting with this Office letter dated the 17th Dec. 1947 regarding Mr. M.V. Rama Rao I am enclosing herewith copy of a further report on the progress made by Mr. Rao.

COPY.

In Lieu of Form No.2958.

AIRWAYS TRAINING LIMITED:

Interim/Final Training Report.

NAME . RAMA RAO, M.V.

X Rank or Grade. G/E Base.- OUTSIDE PUPIL.

Course Phase III Hercules 41. At. Aldermaston.

Result. 72.2% From 17.11.47. To. 19-12-47.  
- Passed

Summary of Training :-

|              |          |                  |
|--------------|----------|------------------|
| Engines.     | 133 hrs. | Exam.1.68% ) 70% |
| Electricies. | "        | 2.72%))          |
| Electrics.   | 21 "     | --               |
| Instruments. | 14 "     | --               |
| Homework.    | --       | 92%              |

Passed to Phase III Pratt and Whitney. 45.

REMARKS.

This pupil has been very attentive and has a remarkable memory for retaining knowledge. Although he has not had a great deal of practical experience, he is careful and methodical in what he does. He has been punctual throughout the course and is neat and tidy in appearance.

Dated 29/12/47

Sd/- D.W. Hall.  
Instructor i/c of Engine Section.

RECOMMENDATIONS:

To proceed with training as outlined in the original programme, but during the time when no work is available in the hanger he is to join the Phase III Pratt and Whitney class.

Sd/- W.J. GRIBBLE.

Senior Engg. Instructor.

DT. 21-1948.

Plcf C.No. 96510 C2, From the DPI, No. F. 7-8/46-ODIV 2612-47.

12205 Pl. see the letter from the C. & I and its enclosures on pp 1-8 of Mr. M.V. Rama Rao is a Scholar Sponsored by this Govt. in 1946-47 for advanced studies in "Aeronautical Engg - Ground Engg" and is intended, after completion of studies, for absorption in Industries (Govt. and Private). Mr. Rama Rao reached the U.K. by October, 1946 and was admitted to the D.I.C. Course in the Imperial College of Science and Technology. He finished the Course in June 1947 and was then permitted to proceed to the Continent for educational visits. From 15-9-47, he is undergoing practical training in the Airways Training Ltd. Aldermaston Aerodrome, Berks. This training will end by March '48. The H.C. for India now proposes that the scholar may be given practical training in Czechoslovakia for a further period of 6 months from March '48. The C. & I want an immediate reply whether the proposal is acceptable to this Govt.

It may be noted that the normal period of Scholarship allowed for each scholar is 2 years. The total period of 2 years <sup>in this case</sup> will expire ~~by~~ only in October 48. As the further training of 6 months proposed to be given to the Scholar in Czechoslovakia will be within the period of 2 years, the proposal may ~~perhaps~~ be accepted.

Dev and Fin. may see for remarks.

Edm. No. 96510 C247-1  
11-12-47

V. No. 122859 D/46  
11-12-47

ES  
10-12-47  
PS  
10-12-47

10-12-47 S/

Dev. Dept

To A.S.

The letter from the Govt. of India and its

he training  
also is valuable  
- it is all  
available in  
the U.K.  
by

B

enclosures on pp 1-8 of and the notes of

the E.P.H. Dept above. The normal period of  
Scholarship allowed for Mr Rama Rao

is two years and it expires only by  
October, 1948. As the further period of  
training in Ezechovla Vacka is within  
the normal period of two years and  
as the training is valuable and is  
not available in U.K., this dept may

agree to the ~~pro~~ proposal. The case  
may be passed on to Fin. Dept

CPR  
12.12.47

Vm  
12.12.47

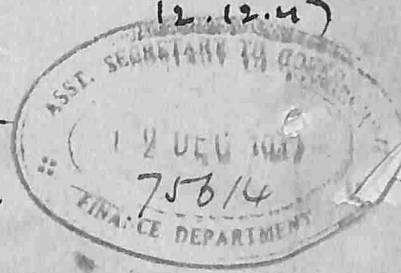
CPR  
12.12.47

Fin E 10

Please see the notes of E.P.H.

DAU.V.O.NO 122859 I 1/47

12.12.47



and sent on pp 1-2 above. This dept may  
also agree to the proposal of E.P.H. at Bon  
Hlabore. The Govt of India will, no doubt, bear  
half the cost of the scholar in respect of the scholar  
under the usual terms. E.P.H. may express this  
presumption in their reply to the Govt of I.

As: (I have not stated anything re: this in my letter  
on 12/12/47)

DS  
EPH

EPH (cr)

Fin 4075614 E III-1

A draft telegram is  
submitted for approval. The file is single

98443 14.12.47

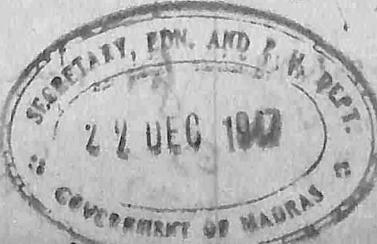
ES  
15.12.47  
ccia  
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15/12/47

15/12/47

14/12/47

15/12/47



G.O. M.NO.  
237 Edn.  
d. 3-2-1

(Issued as Telegram 22 12 47)  
From the C.G.D., No F.7-8/46 EDN & 19-1 47

Its enclosures on pp 10-13 of. may be passed. No further action  
called for in the file. The papers may be

Sub Tech. Edn. No.  
- 1946-47 - Mr M. V. Ramaswami  
training for six months  
- passed - papers - sent