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Scott. II-67—37,964—13-11-45

# Edn (1946) Department.

## Hb SERIES.

G.O. No. 820 Edn

Dated 16.4.1946

[Despatch Abstract.]

Technical Education - Scholarships for advanced studies overseas - [illegible] - Form "A" returns sent to Government of India - Papers [illegible].

## Back Papers.

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

## Further Papers.

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

48946.

No.D.2415(c)/45-E.
Government of India.,
Department of Education,
New Delhi, the 23rd October, 1945.

**IMMEDIATE.**

48946
29.10.45

EXPRESS LETTER.

From

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

To

All Provincial Governments.

Subject:- Scholarships for Advanced Studies abroad, 1946-47.

Government of India consider it essential to send abroad a number of students in 1946-47 to U.K., U.S.A., and other countries prepared to offer suitable facilities for advanced studies in various subjects connected with development plans. It is presumed that Provincial Governments share this view.

2. Besides technical subjects, it is proposed to include other subjects, e.g., education, which are connected with development plans.

3. Although Provinces may be generally expected to finance the entire cost of candidates sponsored by them, Government of India are prepared, as this year, to contribute 50% of the total cost of training in respect of students sponsored in 1946-47 by Provincial Governments, other than those persons who are already in the latter's permanent employ, subject to certain conditions. One of these conditions will be that the Government of India grant will be taken into account as part of the assistance proposed for development out of the allocations which will be made ultimately.

4. A further detailed communication will be sent shortly regarding the qualifications of students to be selected and other matters. Meanwhile, it is requested that Provincial Governments should send a statement of their requirements so as to reach this Department by the 30th November, 1945 at the latest. In view of the great difficulties experienced this year in securing places in the institutions abroad and the fact that it will be harder still to secure the required number of places next year, it is essential to estimate the requirements under each subject immediately and also to complete the selections as early as possible. It will not, therefore, be possible to accept any requirements not received by the 30th November, 1945.

5. The number of scholarships allotted to Provincial Governments will be communicated by the 15th December, 1945.

6. It is generally intended that the total number of scholars to be sent in this scheme in 1946-47 should be approximately the same order as this year.

for SECRETARY.

No.D.2415(c)/45-E.

y forwarded to all Departments of the Government of India. A statement of quirements may kindly be sent so as to reach this Department by the 25th Novem- 5 at the latest. It will not be possible to accept any requirements not by that date.

By order, etc.,

for SECRETARY.

1946-47
record

No.D.2415(c)/45-E.

rwarded for information to Chief Commissioner, Delhi/Ajmer-Merwara Baluchis- should submit their requirements through the Department concerned of of India, by the 30th November, 1945 at the latest.

By order,

for SECRETARY.

/Delhi/60

-52-8-42--15,00,000.

E & P. H. deptt

Draft Telegram.

PC. and Telegram 1-XI.45

EDUCIND

New Delhi

Your letter [No.] D. 2415 (e)/45-E dated 23rd October scholarships advanced studies abroad next year

Please say whether scholarships scheme will apply [to] higher Medical studies also

EDHEALTH

[Reply received & given to Medical Department]

P&M 31/10/45

1/11/45

1/11/45

With the Compliments of the Principal Information Officer, Government of India.

P.I.O. 150.

UNOFFICIAL NOTE.

Unofficial Notes are issued for the information of the Press. They may be published as Written or used as background material.

Unofficial Notes are not communiques and are issued only on the understanding that their source will not be referred to in any way in which is published.

Passed for Publication.



Education & P.H.(C) Department.

Memorandum No. 4896 C-3 Edn., dated 24.11.45

SCHOLARSHIP - Advanced studies abroad - 1946-47 - Letter from the Government of India, No.D.2415(e)/45.E dated 23rd October 1945.

A copy of the letter from the Government of India cited above is communicated to the D.P.I. A statement showing the subjects, and the number of candidates required by Government in each subject, as already estimated, for supplying the teaching personnel in Engineering Colleges, and the number of candidates finally selected in 1945-46 is annexed. It will be seen that twelve more candidates are necessary to meet the estimated requirements in full. The Government of India have now included other subjects connected with development plans, e.g., Education, ~~in the subjects for which candidates may be selected.~~

2. As the final selection is by the Government of India and as in the process a percentage of the total number of candidates selected by this Government may get eliminated, it is considered that the number of candidates that will have to be selected by this Government may be fixed at 20.

3. The D.P.I. is requested to ~~consider~~ whether any alterations or additions are necessary in the subjects already chosen, ~~particularly with reference to new subjects, e.g. Education, and to report the number of~~

p.t.o.

candidates required in each subject, on the basis that 20 candidates in all will have to be selected.

4. The Director is also requested to examine whether any Government Servant should be deputed for higher studies under the scheme next year and, if so, to report the number of persons to be so deputed, indicating the courses of study that they are to pursue.

5. The reference should be treated as specially urgent and a reply should be sent not later than 15th November 1945.

To the D.P.I.
(with copy of letter).
Rr. 15-11-1945.

Annexure

N E Group I in (a)

Government of Madras.
Education and Public Health Department.
Memorandum No.48946.C-3, Edn. dated 2nd November 1945.

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Sub: Scholarship - Advanced studies abroad - 1946-47 - Reference letter from the Government of India, No.D.2415(c)/45.E dated 23rd October 1945.

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A copy of the letter from the Government of India cited above is communicated to the Director of Public Instruction. A statement showing the subjects, and the number of candidates required by Government in each subject, as already estimated, for supplying the teaching personnel in Engineering Colleges, and the number of candidates finally selected in 1945-46 is annexed. It will be seen that twelve more candidates are necessary to meet the estimated requirements in full. It is suggested that we may now ask for this number under this group. The Government of India have now proposed to include besides technical subjects, other subjects connected with development plans e.g. Education; it has to be considered whether any persons need be sent up for training under the head "Education".

2. The Director of Public Instruction is requested to report whether any alterations or additions are necessary in the list that remains for the subjects already chosen and to report, with details, what additional items, if any, should be put down under "Education."

3. The Director is also requested to examine whether any Government Servant should be deputed for higher studies under the scheme next year and, if so, to report the number of persons to be so deputed, indicating the courses of study that they are to pursue.

4. The Director of Public Instruction is requested to treat this reference as specially urgent and send a reply not later than 15th November 1945.

M.V. Subramanian,
Secretary to Government.

To the Director of Public Instruction.

(Forwarded-
By Order)

kd. 2.xi.

Superintendent.

Annexure.

| Subject. | No. of students provisionally selected by this Government with reference to requirements. | No. finally selected by Government of India. | No. still required according to our estimate. |
|---|---|---|---|
| **For supplying the teaching personnel in Engineering Colleges.** | | | |
| A. Mechanical Engineering:- | | | |
| (a) Heat and Hydraulic Engineering | 2 | 2 | .. |
| (b) Industrial and Administrative Engineering. | 2 | 1 | 1 |
| B. Electrical Engineering | | | |
| (a) Generation, transmission and and utilisation of electric power. | 2 | - | 2 |
| (b) Electrical machinery and design | 2 | 2 | - |
| C. Civil Engineering:- | | | |
| (a) Structural Engineering | 2 | 1 | 1 |
| (b) Hydraulic Engineering | 2 | - | 2 |
| (c) Highway Engineering | 3 | 1 | 2 |
| (d) Municipal Engineering | 2 | - | 2 |
| E. Aeronautical Engineering:- | | | |
| (a) Aircraft structure and aircraft design | 1 | 1 | - |
| (b) Aircraft navigation and aircraft instruments. | 1 | - | 1 |
| F. Naval Architecture and Marine Engineering | | | |
| (a) Naval Architecture. | 1 | 1 | - |
| (b) Marine Engineering | 1 | 1 | - |
| L. Electrical Communication Engineering:- | | | |
| (a) Radio Communication. | 2 | 1 | 1 |
| (b) Wire Communication | 2 | 2 | - |

(True copy)

Superintendent.

kd.2.xi.

Copy of telegram from the Secretary to the Government of India, Education Department, to the Secretary to Govt., Edn. & P.H. Dept.

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Reference your telegram November First regarding scholarships overseas. The Provincial Government may if they so desire suggest number of scholarships as they may consider necessary for Medical studies. Provincial demands in this respect will howeverto be coordinated with the scheme which the Health Department have under consideration.

C.F. 32.

EDUCATION Department

From (Name) Dr. S.R.U. Savoor, M.A., D.Sc., I.E.S.,
Designation Director of Public Instruction,
Station MADRAS.

Received ____ Registered ____

To

The Secretary to Government,
Education and P.H. Department,
MADRAS.

Enclosures:

R.C.No. 4368-C/45-2 dated 14th November 1945.

Sir,

52056

ASST. SECRETARY TO GOVERNMENT
16 NOV 1945
EDUCATION AND PUBLIC HEALTH DEPT.

SUB:- Scholarships - Advanced studies abroad Deputation of candidates - 1946--1947:

REF:- Government Memorandum No.48946-C.3., Edn., dated 2nd November 1945:

With reference to paragraphs 2 and 3 of the Government Memorandum cited above, I have the honour to state as follows:

2. In regard to the Technical subjects I enclose herewith a copy of letter RC.No. 29-9.B/45 dated 12th November 1945 from Dr. J.J. Rudra, M.B.E., Principal, Arthur Hope College of Technology, Coimbatore. The letter deals comprehensively with all the aspects of the requirements of this province under "Technical subjects" and also contains suggestions for alterations and additions that are necessary in the existing list. I generally agree with Dr. Rudra's views and suggestions and submit the following remarks:

3. Dr. Rudra suggests that the subject Public Health Engineering may be added under Civil Engineering and that for the present one B.E. in Civil Engineering should be deputed for post-graduate study in that subject. I support this suggestion. Regarding the addition of "Automotive Engineering" under Mechanical Engineering, I may submit that one of the candidates already selected for deputation this year viz. Sri A.P. Jambulingam has taken "Automobile Engineering" and there is, therefore, no need to add this subject now for 1945--46. The addition of new subjects "Electric Measurements" under Electrical Engineering and "Geodesy" under Civil Engineering and the alteration of the subject (b) under Aeronautical Engineering as "Aero Dynamics" Air Craft Navigation and Air Craft Instrument may be accepted.

4. In the list furnished with the Government Memo. under reference it is noted that no candidate has been selected for higher studies in Hydraulic and Municipal Engineering whereas Sri V. Kalyanaraman of the Engineering College, Guindy has been selected for post-graduate study and research in the above subjects.

5. As regards the Government Servants' to be deputed this year Dr. Rudra recommends that Mr. A.R. Ramanathan and Major B.H. Marley, permanent members on the staff of the College of Engineering, Guindy who are now on military duty may be recalled and deputed overseas

P.T.O

DEPARTMENT.

G.O. No. , dated 194 .

Read the following paper :—

ENCLOSURES.

No.

Received 194 . Registered 194 .

Abstract.

GOVERNMENT OF MADRAS

Scott. 11-15 (a)—25,006—24-11-41.

for higher studies - the former for higher studies in "Radio Communications" and the latter (i.e. Major Marley) for - advanced training in "Geodesy". I support this suggestion and at the same time wish to point out that, Major B.H.Morley has recently intimated that it will not be before November 1946 that he will be able to return to the civil post. As regards the deputation of Mr. S. Paul, Officiating Professor of Mechanical Engineering, College of Engineering, Guindy for advanced training in Industrial and Administrative Engineering, I consider that this question should lie over till Professor A. Viswanath, the permanent Professor of Mechanical Engineering, who is on other duty under the Government of India comes back to join duty at the Engineer -ing College, Guindy.

6. In the first part of his letter Dr. Rudra points out that it is imperative that some body should be sent to the United Kingdom, the U.S.A., and Canada to study systems of technical education in those countries before the schemes for new colleges in the Province take final shape. I may point out that this proposal which is more in the nature of a "Study Tour" does not come within the purview of the present scholarship schemes. I shall, therefore, treat this question separately and submit my proposals in due course.

7. As regards the subjects that may be included under "Education" I have the honour to submit that in the develop ment plans envisaged by Government, the requirements of the colleges in the Province have to be particularly considered. So far as the needs of the Government colleges are concerned, it is submitted that there is imperative necessity for the improvement of the quality of the teaching staff of the Government colleges in general and of the Presidency College in particular. The chief Professorships in certain subjects are about to fall vacant in the course of the next few years and in certain subjects the Professorships are already vacant and candidates with War Service are about to be recruited for the vacant posts. The Vice-Chancellor of the Madras University has also stressed the necessity for getting suitable persons trained overseas for appointment to the posts of Professors in the Presidency College, Madras. Taking all the circumstances into consideration, I recommend that suitable candidates, both Government servants and private students, may be deputed for higher studies in other countries in the following subjects:

| Subject; | Estimated requirements of the Government Colleges: | |
|---|---|---|
| | Men. | Women. |
| 1. English | 1 | 1 |
| 2. Mathematics | 2 | 1 |
| 3. Physics | 2 | 1 |
| 4. Chemistry | 2 | 1 |
| 5. History | 1 | 1 |
| 6. Economics | 1 | |
| 7. Botany | 2 | |
| 8. Zoology | 2 | 1 |
| 9. Geology | 1 | |
| 10. Geography | 2 | .. |
| 11. Sanskrit | 1 | .. |
| 12. Arabic & Persian | 1 | .. |
| 13. Psychology | 1 | .. |
| 14. Home Science | .. | 1 |
| 15. Health & Physical Education. | 1 | .. |
| 16. Manual Training Subjects | 1 | .. |
| | 21 | 7 |



In this connection Dr. Rudra has suggested that there is need for sending candidates overseas for higher studies in Mathematics, Chemistry, Physics and Geology with special relation to Engineering, e.g. a candidate selected for the subject of Chemistry will have to study Engineering metals Electro Chemistry, Industrial analysis, etc. As the candidates to be selected for higher studies in these subjects will have to be from suitable graduates in Arts or Science, and not from graduates in Engineering, these four subjects of Engineering Mathematics, Engineering Physics, Engineering Chemistry and Engineering Geology may be included under "Educational subjects". Moreover, the posts of Lecturers and Assistant Lecturers in the above subjects in the College of Engineering are not "Engineering Posts" but form part of the cadre of Lecturers or Assistant Lecturers in Arts or Science subjects. Including candidates to be deputed for the above four subjects, I request that the Government may be pleased to provide for the deputation of 32 candidates for higher studies in 20 subjects mentioned above under "Education" during 1946--47.

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

Muhammad
14.11.45

for DIRECTOR OF PUBLIC INSTRUCTION.

KAN.14/11

D

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Copy of letter from Dr.J.J.Rudra, M.B.E., Principal, Arthur Hope College of Technology, Coimbatore, to the Director of Public Instruction, Madras.

"R.C.No.29-9 B/45, dated 12-11-45.

Sub: Scholarship - advanced studies abroad - 1946-47.

Ref: Director's Proceedings Rc.No.4368-C/45, dated 9-11-45.

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I received your Proceedings dated 9-11-45 on the afternoon of 11-11-45 and I am submitting below my remarks on the points raised in your proceedings.

I. DEPUTATION FOR STUDY OF EDUCATION.-

In my first letter and subsequent letters on the subject, I had pointed out the importance of deputing some persons to study the systems of technical education of the collegiate and non-collegiate types. I suggest that the Principals of all Engineering Colleges should be deputed to go to United Kingdom, U.S.A. and Canada to study systems of technical education in these countries. They need not be sent at the same time but may be sent as exigencies of service permit.

It is imperative that somebody should be sent before the schemes for the new colleges proposed by the Govt. take final shape. The Govt. are going to spend about a crore of rupees in these colleges and we ought to see that these colleges are as modern as they should be.

II. ALTERATIONS AND ADDITIONS IN THE LIST OF SUBJECTS.-

There is great scope for alterations and additions in the number of subjects, e.g. Heat and Hydraulic Engineering can be broken up into two subjects (i) Heat engines, Steam turbines and steam power plants, and (ii) Hydraulic machinery and Hydraulic power plants. Similarly, Industrial and Administrative Engineering can be split up into industrial engineering and administrative engineering; Hydraulic engineering into Irrigation engineering and Water power engineering; Highway engineering into Road engineering and Bridge engineering etc. etc. The subjects submitted in my original list were dictated by the number of scholarships available and relative importance of various subjects. I have to leave out subjects like Chemistry, Physics, Geology and Mathematics from these considerations. However, with the splitting up of these subjects, the number of candidates to be sent will increase and it would require very careful consideration. I therefore suggest that for the present, the subjects may be allowed to remain as they are and a few alterations that have become necessary since the proposals were made may be incorporated.

Separate ft.

Public Health Engineering.- In my report on the proposed Andhra Engineering College, I have suggested the starting of a course in Public Health Engineering at that College. For teaching this subject, specialists in Public Health Engineering are required and the specialists in Municipal Engineering for which candidates have been deputed will not do. Municipal Engineering includes Building construction, Highway Engineering and Sanitary Engineering and persons qualified in this branch will be suitable for those colleges which have a general Civil Engineering course but would not be adequate for the College having the course in Public Health Engineering which involves detailed study of Public Health science and sanitary engineering. I suggest that the subject 'Public Health Engineering' may be added under Civil Engineering. The number of persons to be deputed will depend upon the number of Colleges which would have a course in Public Health Engineering. This in turn will depend upon the action which the Govt. propose to take on the report of the Bhore Committee, a forecast of which appeared in the Daily papers on or about 9th or 10th November.

P.T.O.

However it can safely be said that there will be Public Health Engineering course in at least two colleges. I suggest that for the present one B.E. in Civil Engineering should be sent for two years post-graduate study and research in Public Health Engineering at the Harvard University followed by one year's practical training in Public Health engineering. If an additional scholarship cannot be created for this subject, I suggest that the number of candidates in Highway Engineering or Municipal Engineering may be reduced by one and the scholarship awarded for Public Health Engineering.

Authmotive Engineering.- The subject Automotive Engineering has to be added under Mechanical Engineering in view of the introduction of a specialised course in this subject at the College of Technology, Coimbatore. I have already suggested Mr.Jambulingam of the College of Engineering, Guindy for this.

Automotive Engineering forms part of the general Mechanical Engineering course and it would be necessary to depute as many students next year as the number of colleges having general Mechanical Engineering Course. For the present, only the Engineering College, Guindy has this course. I have not suggested this course in the College of Technology, Coimbatore or at the Andhra Engineering College. It may be to have this course in the Anantapur College, if it materialises. But this will have to be considered.

In Electrical Engineering, a subject entitled 'Electric measurements' should be added and one student per college having electrical engineering course should be deputed next year.

Aeronautical Engineering.- It is suggested that the subject (b) Aircraft Navigation and Aircraft Instrument under Aeronautical Engineering may be altered to (b) Aero-dynamics, Aircaft Navigation and Aircraft Instrument.

I expect that it would be possible to fill up the existing twelve vacancies from the candidates who have applied in response to the advertisement of the Education Department. If suitable candidates are not available from among them, and even in spite of it, I suggest that Government servants of two or three years' experience in the Public Works department and in the Electricity department may be considered for these vacancies. There are quite a lot of young men in these departments with brilliant academic records who are anxious to take to teaching but were unable to apply for these scholarships owing to the restriction placed on Govt. servants. I suggest that atleast some vacancies in the Civil and Electrical subjects may be filled by young men from the Public Works department and the Govt. Electricity department on the recommendation of the Chief Engineers of these departments.

III. GOVERNMENT SERVANTS TO BE DEPUTED THIS YEAR.-

I have already made my recommendations with regard to the existing members of staff at the College of Engineering, Guindy and I regret that it is not possible for me to recommend any of the junior and younger members of staff as I do not consider them suitable.

However, there are three members of staff who are in War Service, viz. Mr. A.Viswanath (Professor of Mechanical Engineering), Major B.H.Marley (Instructor in Surveying), and Flying Officer Mr.A.R.Ramanathan (Electrical Laboratory assistant). The authorities concerned cannot have any objection to their recall. I suggest that Mr.Marley may be sent for advanced training in Geodesy, a more comprehensive term for Surveying and Mr.Ramanathan, who has been working in the wireless branch of the I.A.F. since 1941 may be sent for Radio communication. I regret that I cannot recommend the deputation of Mr.Viswanath for any of the subjects

P.T.O.



subjects as he wants to become a Principal and it is unlikely he would be satisfied with a professorship. I am dealing with his case separately in connection with his claims for appointment as Principal. If Mr.Vizwanath is recalled as Professor of Mechanical Engineering, I suggest the deputing of Mr.S.Paul for advanced training in Industrial and Administrative Engineering for a period of one year. Mr.Paul is much better suited for this than Mr.Vizwanath in view of his experience as Junior Workshop Instructor and Senior Workshop Instructor at the College.

IV. SUBJECTS AND NUMBER OF CANDIDATES FOR NEXT YEAR (1946-47).-

In my original list I had left out subjects like Physics, Chemistry, Geology and Mathematics owing to the limited number of scholarships available. I would like these subjects to be included next year. There are other subjects which have also to be included. Public Health Engineering, and Authmotive Engineering are two of these and have already been referred to above. The other subjects which should be included are Electrical measurements and Geodesy (a more comprehensive term for surveying). There are various other subjects which should be included by spliting up the existing subjects in the manner suggested above. These can be considered later when the number of scholarships available and the number of posts which the Government propose to have in the various colleges are decided.

I am only giving the names of subjects in the Annexure and am unable to specify the number of candidates to be sent for each subject as this will depend upon the ultimate number of colleges and the subjects which these colleges will have. There should be one student per college per subject including the members of staff that may be deputed. I do not know for which of the subjects in the list members of staff have already been deputed and I request that this point may be kept in view while determining the number of persons that may be sent next year.

I may however mention that there is no harm if the number of candidates sent is more than the number of posts that may be available in the colleges. These men with training abroad would not only be suitable for colleges but would be equally suitable for engineering services. There is a dearth of men with specialised knowledge not only in the colleges but also in the engineering services and those who cannot be absorbed in the colleges would supply pressing demands in the Engineering Services."

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P.T.O

16

17

Annexure.

List of subjects for 1945-46 for which students should be sent to supply teaching personnel in Engineering Colleges.

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A. Mechanical Engineering:--

(a) Heat and Hydraulic Engineering.
(b) Industrial and Administrative Engineering.
(c) Automotive Engineering.

10

B. Electrical Engineering:--

(a) Generation, transmission and utilisation of electric power.
(b) Electrical machinery and design.
(c) Electrical measurements.

C. Civil Engineering:--

(a) Structural Engineering.
(b) Hydraulic Engineering.
(c) Highway Engineering.
(d) Municipal Engineering.
(e) Public Health Engineering.
(f) Geodesy.

E. Aeronautical engineering:--

(a) Aircraft structure and aircraft design.
(b) Aerodynamics, Aircraft navigation and Aircraft instruments.

F. Naval Architecture and Marine Engineering:-

(a) Naval Architecture.
(b) Marine Engineering.

L. Electrical Communication Engineering:-

(a) Radio communication.
(b) Wire communication.

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A' Engineering Physics.

B' Engineering Chemistry.

C' Engineering Mathematics.

D' Engineering Geology.

E' Systems of collegiate and non-collegiate Technical Education.

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Note:-- The number of candidates to be determined by the number of Colleges, subjects in the various colleges and the number of candidates already sent during 1945-46.

Sd. J.J.Rudra,
PRINCIPAL.

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(True Copy)

14.11.45

for Director of Public Instruction.

14/11/45

IMMEDIATE

No.D.2610(c)/45-E.
Government of India.
Department of Education.
New Delhi, the 23rd November 1945.

ASST. SECRETARY TO GOVERNMENT
27 NOV 1945
EDUCATION AND PUBLIC HEALTH DEPT.

From - Dr.D.M.Sen, M.A.,Ph.D.,
Secretary to the Government of India,

To - All Provincial Governments.

54072

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Subject:- Higher Education - Students to be sent abroad for advanced courses.

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Sir,

I am directed to refer to this Department Express Letter No.D.2415(c)/45-E, dated October 23rd, 1945 and to say that the Government of India have decided to continue next year the scheme, which was initiated this year, of sending abroad students for advanced courses in subjects connected with development plans so long as adequate facilities for instruction of the required standard are not available in this country. It is presumed that Provincial Governments will share this view of the Central Government and continue to send abroad students for the purposes of their own development plans. Arrangements for suitable instruction will be made in the U.K., U.S.A. and also other countries which may offer adequate facilities.

2. In view of the urgent need for increasing the supply of highly trained technical personnel in connection with the plans of post-war development, this year's scheme was confined to technical and agricultural subjects. It has, however, been decided to extend the scope of the scheme from next year, 1946-47, so as to cover all the other important subjects, such as Education, which are also connected with plans of development.

3. While, in view of the fact that Education is a Provincial subject, it is hoped that Provincial Governments will agree to assume full financial responsibility for the students whom they may sponsor, the Government of India are prepared, if necessary, to pay half the total cost of training in respect of Provincial Sponsored students selected in 1946-47, except those who are already in the employ of a Provincial Government and whose cost of training will be borne entirely by the Provincial Governments concerned. The amount which may be spent on behalf of a Provincial Government in connection with this scheme will be taken into account as part of the assistance which it is proposed to give to Provincial Governments for purposes of their development plans.

4. In view of the urgent need to train highly qualified personnel as soon as possible for the various plans of development, the high cost of training and the great difficulty of finding the required places in suitable institutions abroad, it is essential that none should be selected for overseas training except those who possess first class qualifications and show promise of deriving the fullest benefit from advanced courses of instruction abroad. The report of the Selection Board, Overseas Students for this year shows that there is no dearth of material of high promise in the country. It is true that, in the present circumstances, the material available is more abundant and richer in some Provinces than in others. Provincial Governments will no doubt consider whether the high object of the scheme and the important positions which these students are intended to occupy ultimately justify a relaxation of the condition of domicile for purposes of these scholarships. In any

case.....

(1) Pref d to No. 560 (W) 16-4-45 5,000 GNF

case, it is hoped that, as far as possible, no students will be selected for these scholarships who do not possess a First Class Master's degree or equivalent qualifications in the subject or basic science concerned, preference being given to those who have also acquired some practical and research experience of value.

5. Students selected for these scholarships should be required to execute a Bond undertaking to serve Government, if required to do so, or take up other comparable employment indicated by Government, for a specified period on their return. The terms and conditions of service to be offered should be clearly indicated. The Government of India expect that Provincial Governments will have no objection to such of their sponsored students for whom the Government of India pay half the cost of training, being available on their return for service under the Central Government if they are not required by the Provincial Governments concerned. The Bond which Provincial sponsored students are asked to execute should therefore include a clause to the effect that if on their return their services are not required by the Provincial Government concerned, they will be bound to serve the Central Government, if required to do so in a gazetted post, or take up other comparable employment indicated by the Central Government, for a period of five years.

6. One important reason why the Government of India have offered to share the cost of training of the Provincial Governments are themselves wholly responsible for Education, is the importance and all India character of the scheme. It follows therefore that the scheme should be recoghized as a co-operative effort. While the Government of India do not desire to press the suggestion that Provincial Governments should throw these scholarships open to persons of other Provinces also they expect that Provincial Governments will have no objection to persons in their employ applying for a Central scholarship. They also wish to record their appreciation of the fact that most of the Provincial Governments unhesitatingly placed at the disposal of the Central Government this year not only those whom they had selected for Provincial scholarships but also those in their employ who had applied and were selected for Central scholarships. The Government of India will, on their part, have no objection to their employees applying for a Provincial scholarship if they choose to do so.

7. This year's experience has shewn that the work in connection with the award of these scholarships is long and complicated. It is also necessary, in order to make applications in time for places in Universities abroad, to complete the work of selection as soon as possible. It will probably be even more difficult next year than it has been this year to secure the required number of places in suitable institutions abroad. It is for this reason that Provincial Governments have been requested in the Express Letter referred to above to let this Department know by November 30th, 1945 at the latest the number of scholarships which they wish to award under this scheme for different subjects. It is further suggested that the required returns and the advertisements inviting applications should also show the specific branches of subjects in order to indicate the exact requirements of Provincial Governments. As soon as these returns are received from Provincial Governments the exact number of scholarships to be awarded for different subjects by each Provincial Government will be fixed in the light of the needs of the Provincial Governments and the total number of scholarships available and will be communicated to the Provincial Governments by December 15th, 1945. As it is likely that the total number of scholarships, approximately the same as this year, may not suffice to meet all the requirements.....



requirements of Provincial Governments, the Provincial Governments may, if they so desire, indicate the degree of importance which they attach to different subjects. It is hoped that as soon as Provincial Government are informed of the allotment of scholarships they will take immediate steps to invite applications and set up the machinery of selection so that the names of students recommended by them should reach this Department not later than March 31st 1946. It is proposed to issue an advertisement before December 31st, 1945 inviting applications for the Central Scholarships and it will perhaps be desirable if Provincial Governments also issue their advertisements at about the same time.

8. It would be most unfortunate from all points of view if the selected students, after satisfactorily completing their courses of training, were unable to obtain suitable employment. It is, therefore, essential that the estimates of requirements asked for above should be as closely related as possible to the number for whom it may be reasonably expected to find suitable employment on their return.

9. If Provincial Government have no objection, it is suggested that candidates should be permitted to apply both for a Provincial and Central scholarship but they should be required to state at the time of interview whether they have done so and this fact should be clearly indicated in the list of recommended candidates forwarded by Provincial Governments. The decision as to whether a candidate selected by a Provincial Government as well as by the Central Government should be awarded a Provincial or a Central scholarship will depend on several considerations, including the choice of the candidate himself and the relative needs of the Central and Provincial Governments, but as far as possible the Central Government will not take away from Provincial Governments candidates selected by them. In order to save time and unnecessary correspondence, it is requested that Provincial Governments should recommend for each scholarship, as some of them did this year, two or three suitable candidates, indicating their preference if they desire to do so.

10. The Government of India propose, in making their own selections, to ensure, as they did this year, that the minority communities receive a fair share of these scholarships, provided that suitable candidates from those communities are forthcoming. The communal ratio to be aimed at will be the ratio fixed for recruitment to Government services. It is hoped that Provincial Governments will also accept this principle and indicate, when forwarding the names of candidates recommended by them, how many candidates of each community they would like to be selected.

11. While it is not necessary to reserve scholarships for those who have served or are still serving in any of the defence services, it is hoped that suitable candidates from among them will be forthcoming, and their applications should receive the fullest consideration. With regard to those still engaged in one of these services, efforts will be made to explore the possibility of enabling them to apply for these scholarships and securing their release if they are selected.

12. Subject to what has been said above, the general features of the scheme will be the same as this year. A copy of the brochure, E.C.19, issued by the Department of Education, Health and Lands this year is enclosed for ready reference. Provincial Governments will no doubt refer to this Department any point which they may consider to require further clarification. It may, however, be stated here once again that the courses of instruction which this scheme is designed to provide are essentially.....

essentially educational, including where necessary and possible relevant practical training. This scheme does not provide for persons who require a course of practical training only for the purpose of enlarging their industrial or professional experience. Such persons are provided for under the scheme of technical training which is dealt with by the Labour Department of the Government of India.

I have etc.,

for Secretary.

---

"Bali.
99 Copies.

23

Development Department.

U. O. Note No. 67883 P. & D. IV/45-6, dated 26th November, 1945.

EDUCATION - Technical training abroad - Deputation of private students - 1946-47. Requirements of the Development Department.

--

SECRETARY TO GOVERNMENT
26 NOV 1945
EDUCATION AND PUBLIC HEALTH DEPT.

3847

With reference to Education and Public Health Department, U.O.No. 48946C-1, dated 1st November, 1945, the Director of Industries and Commerce, the Director of Agriculture, the Chief Engineer (General, Buildings and Defence) and the Chief Engineer for Electricity were consulted regarding the subjects for which stipendary students may be recommended for deputation during 1946-47. The Chief Engineer (Electricity) has not yet sent his reply. The Chief Engineer for Irrigation has offered his remarks along with the Director of Industries and Commerce, the Director of Agriculture and the Chief Engineer (General, Buildings and Defence).

The number of students selected for deputation during 1945-46 but who have not been approved by the Government of India is ~~xx~~42. The Director of Industries and Commerce, the Director of Agriculture, and the Chief Engineer, ~~for~~ General, Buildings and Defence) have suggested modifications and additions

to the.....

to the subjects and to the number of students to be sent for each subject and the total number to be deputed with reference to the ~~list~~ suggestion comes to 44. The number to be distributed among the subjects is as follows:

| | | | |
|---|---|---|---|
| Mechanical Engineering: | 9 | Applied Chemistry: | 10 |
| Electrical Engineering: | 4+2 | Applied Physics : | 3 |
| Chemical Engineering: | 6 | Metallurgy | 1 |
| Aeronautical Engineering: | 1 | Other forms of applied Science. | 2 |
| Marine Engineering: | 1 | Technical subjects not covered above. | 7 |

Total: 44.

The Education and Public Health Department may be requested to include the forty-four students in their consolidated list due to the Government of India.

S.Y.Krishnaswamy,
Joint Secretary to Government.

To the Education and Public Health Department.

Forwarded/By Order.

Superintendent.

KVH 2611/

Dev. Dept.

Sub: EDUCATION - Technical ~~and~~ training ~~abroad~~ - Scholarships for advanced Studies abroad - 1946-47.

To U. S.

With reference to E. & P. H. U. O. Note No. 48946-C1, dated 1.11.45 on the subject mentioned above, the following particulars relating to the deputation of Government servants during 1946-47 (in respect of the departments under Development Department) may be furnished for transmission to the Govt. of India.

| | Subject Chosen. | No. of trainees proposed | | Place of st dy. |
|---|---|---|---|---|
| Agriculture. | Fruit Technology. | 1 | 7 | U. S. A. |
| | Virus Pathology. | 1 | | U. S. A. |
| | Agricultural Economy. | 1 | | U. K. |
| | Agricultural Engineering. | 1 | | U. S. A. |
| | Agronomy General. | 1 | | U. S. A. |
| | Soil Bacteriology. | 1 | | U. S. A. |
| | Agronomy-Soil Conservation. | 1 | | U. S. A. |
| Fisheries. | Fishery Technology - Marketing of Fishery and Fish Products. | 1 | 5 | U. K. |
| | Fishery Technology - Deep sea Fishing Craft & Tackle | 1 | | U. S. A. & U.K |
| | Fishery Technology.- Fish Liver Oil | 1 | | U. K. |
| | Fish Technology - Refrigeration | 1 | | U. K. |
| | Fresh Water and Marine Biology | 1 | | -- |
| Veterinary. | Artificial insemination | 1 | 5 | U. K. (Cambridge) |
| | Sheep Husbandry | 1 | | Australia |
| | Physiology - General | 1 | | U. K. (Cambridge |
| | Protozoology | 1 | | U. K. (London) |
| | Veterinary Entomology | 1 | | U. K. |
| Industries. | Food Technology | 1 | 7 | U. S. A. (University of California) |
| | Paper Technology | 1 | | -- |
| | Technical training in teaching methods in Technical Colleges | 1 | | -- |
| | Training in Electronics | 1 | | Northern Polytechnic, London. |
| | Manufacture of Boring tools | 1 | | -- |
| | Sericulture | 2 | | Japan and China. |
| Co-operation. | Subjects to be specialised in to be decided in due course. | 2 | 2 | Not to be attached to any Institute or undergo particular course of training but to tour in Italy, Germany, Denmark, Holland, Belgium, France, England and Scotland and Ireland to observe the working of different aspects of co-operative movement. |
| Forests. | Nil | Nil | | Nil |

The Govt. of India may be requested to select ~~the~~ suitable institutions in the countries chosen for training and in cases where the country has not been specified, they may select also the country and the institutions there, which will provide suitable training in the subject chosen.

E. & P. H. may be requested to inform India by Telegram before hand that the particulars required are being despatched by post before 30-11-1945 and that the proposals will reach them ~~xxxxxxxxx~~ on the 1st or 2nd Decr. 1945.

D.J.C.C.
28.11.45.

T. S.
28.11.45.

E. &L P. H.

True copy / By Order

28/11/45
Superintendent.

28.11.45.

Dy no No 6148(A)/45-3
28.11.45
In Bhopal 3.20 PM

From the Chief Engineer for Electricity No.4944.E/45-3. dated 23-11-1945.

...

I consider there is scope for private enterprise in the manufacture of lamps, fans, small motors and wiring accessories and would therefore suggest deputation for training abroad of two private students as indicated below in addition to the two required to be sent and shown in column (4) under item B of the statement sent with the Government Memorandum.

1. Student for manufacture of electric lamps and accessories and
1. student for manufacture of electric fans small motors and starters.

...

Extract from the notes of Development Department.

...

Submitted for perusal of pp.17-18 c.f.

It is for orders whether the suggestion of the C.E.(E) to depute two students for training in the manufacture of Electric lamps and accessories and of electric fans, small motors and starters will be approved. If approved the file may be sent to E.P.H. for making necessary additions to the number of students mentioned in the U.O.Note at pp.13-15 c.f.

T.S.
27-11-45.

Extract from the L.A. Dept. notes.

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The proposal in this case is to depute as in the current year three private candidates for advanced courses in Highway Engineering in the U.K., U.S.A. etc. in 1946-47, in accordance with the recommendation of the C.E.(C). The Finance Department have accepted the the proposal. The case may

As in the case of students deputed in the current year the financial procedure regarding 'New Service' willbe followed by E.P.H. in respect of similar proposals of all the departments put together as one consolidated scheme.

J.L.W.
26-11-45.

5/4333



Copy of letter from the Chief Engineer for Electricity to the Secretary to Government, Puble Works Department, No.4944-E/45-1, dated 13th November, 1945.

...

Sub: Scholarships for advanced studies abroad 1946-47.

Ref: Government Memo. No.5505-B/45-1, dated 2.11.45.

...

With reference to para 2 of the Government Memo. cited above I invite reference to my letter No.5738(a)-E/44-1 dated 5.1.45 in which I recommended deputation for training abroad of an Engineering graduate with adademic distinction who would be later absorbed in the Department as Assistant Engineer and also stated that without upsetting reasonable expectations of recruited Junior Engineer's it would be possible to take one such candidate in the Department every year. As the Government of India have not selected a candidate for 1945-46 I recommend that the number of candidates to be selected in 1946-47 may be fixed at two.

2. As reported in my letters No.5738(a)-E/44-8 dated 5.4.45, and No.5738(a)-E/44-25 dated 3.7.45 one of the selected candidates will be given training in the works of Messrs. English Electric Co., Ltd., and the other will undergo identical training with some other manufacturing firm.

3. With reference to para 3 of the Government Memo I presume that the deputation of Divisional Electrical Engineers, Assistnt Engineers and Junior Engineers from this department is being treated as one covered by the proposals of the Labour Department of the Government Of India as the form in which particulars of the officers' were called for in Memo. No.117-B/45-5 dated 26.3.45 is identical with that given in letter from the Government of India Department of Labour N.TRCII-1140 dated 12.12.44 (communicated to me with Government Memo No.6193-B/44-2 dated 2.2.45). According to proposals approved in Government Memo No.117-B/45-5 dated 26.3.45 ~~to proposals approved in Government~~ Memo one Divisional Electrical Engineer, one Assistant Engineer and one Junior Engineer will be deputed for training in 1946-47 and if the proposal in para 1 above of deuting two students also goes through I do not think it is necessary to depute further members from the Department for training abroad under the scheme of the Education Department of the Government of India. Should, however, the Government of India not select one or both candidates for training in 1946-47 I would suggest that the deficiency may be made up by deputation of further departmental Junior Engineers either under the Scheme of the Labour Department of the Government of India or under that of the Education Department.

.....

Copy of letter from the Chief Engineer for Irrigation to the Secretary to Government, Public Works Department, No.1307/45-A-34, dated 17th November, 1945.

...

Sub: Scholarships for advanced studies abroad.

...

Ref: P.W.D. Memorandum No.5505-B/45-1, dated 2.11.45.

...

Two issues are raised in the above Memorandum:

(1) As regards private students Government desire to know whether the number of students shown in col. 4 of the Annexure may be retained or whether any changes are necessary.

(2) Whether any new subjects have to be included in the list of subjects and if so, the number of students to be selected for those subjects.

As regards (1) I think the number provided in the Annexure is f

sufficient. No alterations to it are necessary at present. As regards (2) new subjects, I would suggest "Hydrology in relation to studies necessary for development of tube wells or bore wells for tapping subsoil supplies of water for irrigation purposes" may be specified as a new subject. The number of students to be selected may be one every year for the present.

2. In invite a reference in this connection to Education and Public Health G.O.No.347 Education, dated 9.3.45 constituting a committee for selecting candidates. This G.O. leaves it open to the Committee to obtain such technical advice as it may require by coopting heads of Departments but I believe that in selecting the students under reference the Chief Engineer for Irrigation was not consulted at all. I consider that consultation with the heads of departments should be invariably made; this will check up the fitness of candidates from the Department's point of view, will minimise rejections and will enable a more firm protest where rejections happen to be detrimental to the object in view.

3. So far as Government servants are concerned I think the proposals similar to deputation of three officers mentioned in para 3 of the Government Memorandum will have to be followed from year to year. In addition to that, facilities may be given to some of the members of the Public Works Department who are Government servants to go to foreign countries for advanced studies on study leave terms on conditions similar to those mentioned in para 7 of the Educational Department's scheme published in the pamphlet "Information for students desiring to proceed overseas for advanced studies (1945)". It may be that a few persons who are willing to go for advanced studies (as opposed to training in methods of organisation for which Government servants will be deputed) with a view to graduation may be permitted to do so. I think, so far as Irrigation is concerned, one officer may be sent in 1946-47 for this purpose from among the applicants who express their willingness to take up these studies. The person to be actually sent may be considered later. In my view one officer in each of the three branches, Roads, Buildings and Sanitary Engineering can possibly also be sent under this scheme. But that is a matter for the other Chief Engineers to decide.

True Copy / By Order

D. Rajamani
22.11.45.
Superintendent

Voo
22/11

PUBLIC WORKS DEPARTMENT.

No.2907-B/45-8, dated 21st November 1945.

From
R. McIntosh, Esq., M.B.E., B.Sc.,
Chief Engineer, P.W.D.,
(General, Buildings and Defence),
Chepauk, Madras.

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

ASST. SECRETARY TO GOVERNMENT
28 NOV 1945
EDUCATION AND PUBLIC HEALTH DEPT.

Sir,

Sub:- Scholarships for [illegible] abroad--1946-47.
Ref:- Government Memorandum No.3503-B/45-1, P.W.D. dated 2-11-1945.

****

I suggest the following additions and alterations to Columns 4 of the Annexure to the Government Memorandum quoted above.

C. CIVIL ENGINEERING:

(d) Soil Mechanics:- The number so far selected by Government of India is only one. The study of soils and soil mechanics is admittedly a most important branch of Science recently developed and would be most useful for considering designs of foundations for buildings, roads, earth embankments etc. I consider it essential that some students should be trained in this new branch so as to keep uptodate. Two students may be sent abroad for this training during the year 1946-47.

(f) Sanitary Engineering:- Out of 4 students recommended by the Provincial Government, only 3 have been selected by the Government of India. As the execution of the post War plans of water supply and drainage schemes will require a large number of trained staff, I recommend that 4 more students may be deputed in 1946-47 in addition to the one mentioned in Column 4 of the Annexure to the Government Memorandum under reply.

2. I also suggest that the following subjects may be added under the head "C.Civil Engineering" in the Annexure as "g-Reinforced concrete structures", "h-Prestressed structures" and "i-Construction of hospitals and health centres". Two Executive Engineers and two students may be deputed in respect of these subjects for the year 1946-47.

3. In regard to deputation of officers for higher technical training, so far as the buildings branch is concerned, two Executive Engineers may be deputed for 1946-47 as stated in para 2 above. In regard to the Sanitary Engineering Branch, the Government have agreed to the deputation of one Executive Engineer of the Public Works Department during 1945-46 for training in the United Kingdom in the investigation, design, execution and maintenance of water supply and

30

-2-

and drainage schemes and have addressed the High Commissioner for arranging for the necessary facilities to the officer to be deputed. Vide Education and Public Health Department Letter No.35658-3-E2.P.H. d/13-9-1945. It was also suggested in para 7 of my letter to the Secretary, Education and Public Health No.1970-E/44-20 d/31-7-45 that on the return of the officer to be deputed in 1945-46, the present Executive Engineer (Public Health), one or two selected Executive Engineers and one or two selected Municipal Engineers might be sent abroad for a year's training in 1946-47. In regard to the Boiler Inspection Department, two officers have been proposed for training in 1945-46 and I consider that no officers need be deputed for this branch for 1946-47, apart from the students referred to in my letter to the Secretary, Development Department No.2907-E/45-7, d/21-11-1945. No deputation from among officers need be made in respect of the Workshop branch also for the year 1946-47.

4. In para 3 of the Government Memorandum, the Government enquire whether it is necessary to depute any government servants for studies abroad under the Government of India, Education Department Scheme in the year 1946-47. I think it is advisable to encourage foreign study under the Education Department Scheme the essence of which is foreign study on study leave terms, supplemental by special allowance. I agree with the suggestion of the Chief Engineer, Irrigation in this regard, in his letter No.1307/45-A-34, d/16-11-1945 with modification that if more than one officer offers for foreign study and is found qualified for the concession, the number need not be limited to one for each branch.

for Chief Engineer, P.W.D.,
(General, Buildings and Defence).

Copy to the Secretary to Government,
Education and Public Health Department.

s.c.c. 22/11.

22.11.45

31

P.W. Department.

Scholarships for Advanced Studies abroad, 1946 - 47.

...

Memorandum No.5505-B/45-1, dated 2nd November, 1945.

...

From the C.E. (E) No.4944-E/45-1, dated 13.11.45.
From the C.E. (I) No.1307/45-A-34 dated 17.11.45.

17

...

Please see the C.E.(E) and C.E.(I)'s replies at pages 5-8 cf. The C.E.(G)'s reply is awaited. He was reminded on 17.11.45. The following note is submitted on the C.E.(E) and C.E.(I)'s replies.

ASST. SECRETARY TO GOVERNMENT
22 NOV 1945
EDUCATION AND PUBLIC HEALTH DEPT.

53237

2. C.E.(E)'s letter at page 5-6 cf: The C.E.'s proposal to select two private students for training in electrical engineering, may, perhaps be accepted. With reference to para 2 of the C.E.'s letter regarding the firms where training may be given, it is submitted that the necessary particulars may be communicated to the E. & P.H. Department if and when India ask for them in the usual form as was done last year.

As regards the deputation of the Government servants, please see the C.E.'s remarks at 'A' on page 6 cf. The question may, perhaps, be taken up after the results of India's selection of the private students are known.

3. C.E.(I)'s letter at page 7 cf:

Para 1 of the letter: The C.E.'s suggestions at 'A' on page 7 cf. in regard to private students may, perhaps, be agreed to. It is, however, submitted that if his suggestion to include the subject Hydrology in relation to studies necessary for development of tube wells or bore wells for tapping subsoil supplies of water for irrigation purposes and to select one student every year for study in that subject is to be accepted, the estimate of the number of students in column 4 in the statement at the bottom of page 1 cf. will have to be increased by one.

Para 2 of the C.E.'s letter: The matter is one for E. & P. That Department may be requested to take necessary action.

Para 3 of the C.E.'s letter: The C.E. says that so far as irrigation is concerned, one officer may be sent in 1946

X. But the question whether the students can be absorbed in the Deptt. as Asst. Engineers may be Considered later on.
S.J.
19/11/45

32

for advanced studies and that the person to be actually sent may be considered later. This may, perhaps, be agreed to. As regards B in para 3 at page 7 of. it is submitted that the first batch of three officers selected have not yet been sent abroad. The second batch of three officers will presumably have to go under the Government of India Labour Department Scheme. This may be considered when that Department addresses us for selection of Government officers for higher technical training during 1946-47.

4. After orders are passed an extract of the above note and orders that may be passed together with copies of the C.E.'s letters may be sent to E. & P.H. Department. With reference to their U.O. No.48946-C-1, dated 1.11.45.

With reference to para 3 of the C.E.(I)'s letter at page 7 of. it is submitted that the first batch of 3 officers selected for training in Irrigation has not yet been sent. The question is under correspondence with the Government of India and they have been asked to issue very early orders for sending Mr. Ekambaram to U.S.A. in advance so that he may be there this month when Dewan Bahadur N. Govindaraja Ayyangar also will be going to U.S.A. The question of sending further Government servants may be settled after the first batch is sent.

S.J./19.11.45. V.N.K./20.11.45.

P.W.D. U.O. No. 55-05-B/45-3 d 22-11-45

Forwarded/By Order

L. Rajamani 22.11.45.
Superintendent.

Edn. and P.H. Dept.

Please see the letters of the Chief Engineers in the C.F. and the note of the P.W.D. above. The requirements of that Department are shown in the statement below:-

P.T.O.

18 33

| | Private students. | Govt. servants. |
|---|---|---|
| ELECTRICITY DEPT. | | |
| Elec. Engineering .. | 2 | Nil (for the present) |
| IRRIGATION DEPT. | | |
| 1. Dam construction .. | 1 | Nil (for the present) |
| 2. River conservancy and flood control | 1 | |
| 3. Hydrology in relation to studies necessary for development of tube wells or bore wells for tapping sub-soil supplies of water for irrigation purposes - (new subject) | 1 | |
| C. CIVIL ENGINEERING. | | |
| 1. Soil mechanics .. | 2 | |
| 2. Sanitary Engineering .. | 5 | |
| (NEW SUBJECTS) | | |
| 3. (g) Reinforced concrete structures | 2 | 2 |
| 4. (h) Prestressed structures | | |
| 5. (i) Construction of hospitals and health centres | | |
| | 14 | 2 |

pp3-4 cf

Last time, it was decided that each Dept. should settle, after taking orders in circn., the no. of candidates to be selected for their requirements and that E.&.P.H. shd. only consolidate the lists for being sent to the G. of I.

The recommendations of the C.E. (General) have not yet been approved by the P.W.D.

P.W.D. Department may be asked to take orders in circulation about the number of private candidates and Govt. servants which they propose to select for next year and to intimate the final decision to this Department as quickly as possible.

[With regn. to and instruction from Secy.]

24/11/45 PWD.

U.O. 48946 C-1
24.11.45

Further note read from P.W.D added to cf-pp5-6.

B Seshia 26/11

A note is submitted in the main file (Govt file). A reply may be given to G.O.Ms. after orders are taken on the file.

BMM 26/11/45 26.11.45.

27/11.45

It has been ordered in circulation in the linked file (Civil. 15-505-B/45-1) that the number

Govt. Press

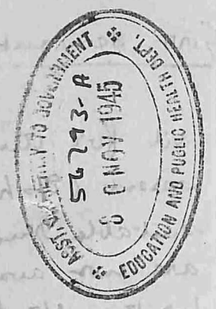
of students and officers that may be sent for advanced studies during 1946-47 may be as follows:

para 6, p 15 of LF

| | Private Students | Govt. Servants |
|---|---|---|
| **Electricity Deptt.** | | |
| Electrical Engineering. | 2 | Nil for the present. (If no suitable students are not available for the study of El. Engg., the number required may be made up by the selection of suitable Junior Engineers.) para 8, pp 19-20 NF, LF |
| **Irrigation Deptt.** | | |
| 1. Dam Construction | 1 | |
| 2. River Conservancy and flood control, | 1 | |
| 3. Hydrology in relation to studies necessary for development of tube wells or bore wells for tapping subsoil supplies of water for irrigation purposes (new subjects) | 1 | |
| 4. Subjects not yet defined. | — | 4 para 3, p 19 NF LF |
| **Civil Engineering.** | | |
| 1. Soil Mechanics | 2 | |
| 2. Sanitary Engineering | 5 | |
| 3. Reinforced concrete structures | | |
| 4. Prestressed structures. * | 2 | 2 |
| 5. Construction of hospitals & health centres. | | |
| * new subjects. | 14 | 6 |



para 9, pp NF, LF




2. It may be mentioned that, based on the experience last year, the CEs are being consulted on the question whether it is ~~not~~ advantageous to send the officers for education under the GOI, Education Deptt's scheme or for training under the GOI, Labour Deptt's scheme and that, pending the receipt of their replies, the estimates in respect of the Govt. servants are tentative. (Orders in circulation were obtained on this point also).

3. With the above information, the file may be returned to GPPS Deptt.

Bkm 30/11/45 — 30.11.45. — 30-11-45

No. Ht N.S. 5985-B/45-1 — 30.11.45

Four drafts.
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Copy to Devl., P.W. and L.A. Depts.

dsBd 1/12/45

dsBd 1/12/45

Above



I.

TELEGRAM EXPRESS d. 30-11-45

Telegram only Despatched. 30.11.1945.

(To)

EDUCIND SIMLA

(Reference) Your letter (No.) D.2415(c)/45-E (dated) twentythird October (1945)

Madras Government likely (to) recommend seventy-seven private candidates and forty-two Government servants Letter follows showing list of subjects

EDHEALTH

II.

LETTER/Ref. No. 48946 c/45-7 Edn dsBd 30-11-45

To

The Secy. to the Govt. of India,
Dept. of Education, Simla.

Sir,

Technical Education--
Scholarships for advanced studies abroad.

Ref:- Your letters No.D.2415(c)/45-E, dated 23-10-45, and No.D.2610(c)/45-E, dated 23-11-45.

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In continuation of my express telegram, dated 30.11.1945, I am directed to say that the Govt. of Madras have decided to recommend 77 "sponsored candidates" and 42 Govt. servants for 1946-47. The no. has been fixed with refce. to the requirements in relation to this Govt.'s post-war plans which were estimated last year but have not been fully met by the candidates finally selected last time, and with refce. also to additions subsequently found necessary.

2. The numbers include the following subjects under a new head "Education"; the idea is to select Govt. servants for these subjects if there are suitable candidates among them and to select private candidates if there are no suitable candidates among Govt. servants; for the present, these items have

been included in the figure for Govt. servants:-

(1) Pure Mathematics.
(2) History and Politics.
(3) Botany.
(4) Zoology.
(5) Engg. Mathematics.
(6) Engg. Physics.
(7) Engg. Chemistry.
(8) Engg. Geology.

A list of the subjects for which candidates are proposed to be selected is annexed.

Form "A" in respect ~~of each~~ of the two types of candidates, viz., private candidates and Govt. servants, will be ~~completed~~ completed and forwarded at a very early date.

3. I am to add that as soon as information is received about the number of scholarships allotted to this Province, steps will be taken to issue an advertisement inviting applications and to set up the machinery for the selection of candidates.

4. ~~About a dozen~~ I am to request that twelve copies of the Govt. of India brochure "E.C.19" may kindly be supplied to this Government.

Subject to availability

Y.O.S.,

(for Annexure, see pp.5-7 infra)

Copy to the D.P.I.
" Dev., P.W.D.
and L.A.

SPECIAL

III.

MEMORANDUM No. 48946 C/45-8Sm dated 30-11-45

Scholarships for advanced studies abroad.

Ref:- From the D.P.I., No.4368-C/45-2, dated 14-11-45.

---

The Govt. approve the suggestions made by the D.P.I.--

(1) that 'Public Health Engg.', 'Geodesy' and 'Electrical Measurements' may be added to the subjects for which candidates may be selected;

(2) that the subject 'Aircraft Navigation and Aircraft Instruments' may be altered to 'Aerodynamics, Aircraft Navigation and Aircraft Instruments' under "Aeronautical Engineering"; and

(3)



(3) that two officers of the Engg. College, may be selected for 'Geodesy' and 'Radio Communications'. The Government have also decided that a private candidate may be selected for 'Heat and Hydraulic Engineering'. In addition to the 11 candidates (excluding the one for 'Radio Communications' for which a Govt. servant is to be selected) required according to the estimate for 1945-46, as indicated in the annexure to Govt. Memo.No.48946-C-3-Edn., dated 2-11-1945, a candidate may be selected for each of the subjects of 'Public Health Engg.', 'Electrical Measure-Measurements' and 'Heat and Hydraulic Engg.'. The D.P.I. is requested to complete Form "A" in respect of ~~each of~~ (a) the 14 private candidates, and (b) the 2 Government servants, and forward them to Govt. before the 5th Decr. 1945. As the total number of scholarships that may be allotted to this Province may not meet all the requirements of the Departments, the degree of importance attached to the different subjects should also be indicated in the Form, relating to private candidates, by arranging them in the order of preference.

2. The Govt. have decided that the following subjects may be included under the new head "Education" and that Govt. servants may be selected for those subjects for which there are suitable candidates among them, private candidates being selected for the others:-

(1) Pure Mathematics.
(2) History & Politics.
(3) Botany.
(4) Zoology.
(5) Engg. Mathematics
(6) " Physics.
(7) " Chemistry.
(8) " Geology.

The Director is requested to examine and report urgently for which of the subjects there are suitable Govt. servants who can be selected for higher studies abroad. In the meanwhile, he is requested to include particulars required by the Govt. of India (Form "A")

in regard to the candidates for these subjects also, putting them down, for the present, under the heading of "Govt. servants".

3. A copy of the Govt. of India letter No.2610(c)/45-E, dated 23-11-45, is enclosed for information.

30/11/45

IV.

U.O. Note No. 49946c/45-9 Edn. dated 30-11-45

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Scholarships for advanced studies abroad - 1946-47.

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The L.A./P.W.D./Dev. Dept. may be requested to intimate particulars in the form prescribed by the Govt. of India (Form "A") in respect of ~~each of~~ (a) the private candidates, and (b) the Government servants, they propose to select for study abroad in 1946-47, under the G. of I. scheme. As the total number of scholarships that may be allotted to this Province may not meet all the requirements of the departments, the degree of importance attached to the different subjects may be indicated by listing them up in order of preference in the list relating to private candidates. The forms may be completed and sent to this department before 5th Decr. 1945.

A copy of the Govt. of India's letter No.2610(c)/45-E, dated 23-11-1945, is forwarded for information.

30/11/45

To the D.P.I. (with encl.) copies of form and letter.

pp. 19-22 cf

S/134 cf

SPECIAL

pp. 19-22 cf

To the L.A. Dept. } With
" P.W. " } copies
" Dev. " } of form and letter.

pp. 19-22 cf

S/134 cf

ANNEXURE.

PRIVATE CANDIDATES.

Subjects - No. of candidates

I

~~For supplying the teaching personnel in Engineering Colleges.~~

A. Mechanical Engineering—
(a) Heat and Hydraulic Engineering. — 1
(b) Industrial and Adminstrative Engineering. — 1
B. Electrical Engineering—
(a) Generation, transmission and utilization of electric power. — 2
(b) Electrical ~~machinery and design.~~ measurement, — 1
C. Civil Engineering—
(a) Structural Engineering. — 1
(b) Hydraulic Engineering. — 2
(c) Highway Engineering. — 2
(d) Municipal Engineering. — 2
(e) Public Health Engineering — 1
E. AERONAUTICAL ENGINEERING — 14
Aerodynamics, Aircraft Navigation and Aircraft Instrument — 1

II.

p24 cf ~~For absorption in Industries (Government and Private enterprise)~~

details will be filled up in consultation with Govt before issue

A. MECHANICAL ENGINEERING-[9]
Design and manufacture of internal combustion engines — 1
Design and manufacture of machine tools — 2
Design and manufacture of pulverising and grinding machinery including machinery for buildings and roads — 1
Design and manufacture of cutting tools like files, saws, etc. — 1
Manufacture of agricultural implements — 1
Design and manufacture of centrifugal pumps, deep well, bore well and tube well pumps and air lift — 1
Manufacture, installation and testing of boilers — 2

p24 cf
22 F II
p13 NF

B. ELECTRICAL ENGINEERING-[6]
Design and manufacture of electric cables — 1
Manufacture of batteries and dry cells — 1
Design and manufacture of radio sets, etc. — 1
Electro-plating — 1
Manufacture of electric lamps and accessories — 1
Manufacture of electric fans, small motors and starters — 1

D. CHEMICAL ENGINEERING-[6]
Wood and lignite distillation and utilisation of products — 1
Paper manufacture — 1
Manufacture of films — 1
Manufacture of paints — 2
Electro chemistry with special reference to acids — 1

E. AERONAUTICAL ENGINEERING--1
Ground Engineering — 1

F. MARINE ENGINEERING--1
Marine Engineering and design of ships, power boats — 1

H. APPLIED CHEMISTRY-[10]
Leather Chemistry and treatment of leather — 1
Plastics and manufacture of products like bakelite — 2
Chemical treatment of cellulose fibre — 1
Manufacture of power alcohol — 1
Manufacture of drugs and pharmaceuticals — 2
Manufacture of plate glass — 1
Oil technology and hydrogenation — 1
chemistry of insecticides & fungicides — 1

I. APPLIED PHYSICS-[3]
Fuel Technology and design of furnaces and kilns — 1
Sound Technology, acoustics & recording — 1
Soil Physics. — 1

K. METALLURGY- [1]
Manufacture of springs & heat treatment of metals.

L. OTHER FORMS OF APPLIED SCIENCE [-2]
Manufacture of metal toys
Manufacture of micanite

M. TECHNICAL SUBJECTS (not covered above) [-7]
Ceramics and manufacture of ceramic ware
Factory management.
Light metal spinning
Lithography and printing technology
Canning and food preservation

2
46

III.

(~~For absorption in the Public Works and Electricity departments.~~)

| | |
|---|---|
| B. ELECTRICAL ENGINEERING-- | 2 ① |
| C. CIVIL ENGINEERING-- | |
| Dam construction | 1 |
| River Conservancy and flood control | 1 |
| Hydrology in relation to studies necessary for development of tube wells or bore wells for tapping subsoil supplies of water for irrigation purposes | 1 |
| Soil Mechanics | 2 |
| Sanitary Engineering | 5 |
| Reinforced concrete structurs<br>Prestressed structures<br>Construction of hosps. & health centres. | 2 |
| IV. | 14 |

① If ~~student~~ private candidats are not available, Govt. servants will be selected.

(~~For absorption in the Public Works and proposed Highway department.~~)

| | |
|---|---|
| C. CIVIL ENGINEERING-- | |
| Highway Engineering | 3 |
| Grand Total .. | 77 |

GOVERNMENT SERVANTS.

| | |
|---|---|
| C. CIVIL ENGINEERING-- | |
| Geodesy .. | 1 |
| L. ELECTRICAL COMMUNICATION ENGINEERING-- | |
| Radio Communication | 1 |
| | 2 |
| N. EDUCATION. | |
| Pure Mathematics | 1 |
| History and Politics | 1 |
| Botany | 1 |
| Zoology | 1 |
| Engineering Mathematics | 1 |
| " Physics | 1 |
| " Chemistry | 1 |
| " Geology | 1 |
| | 8 |
| AGRICULTURE: | |
| Fruit Technology. | 1 |
| Virus Pathology | 1 |
| Agricultural Economy | 1 |
| Agricultural Engineering | 1 |
| Agronomy General | 1 |
| Soil Bacteriology | 1 |
| Agronomy-Soil Conservation | 1 |
| FISHERIES: | |
| Fishery Technology - Marketing of Fishery and Fish Products. | 1 |

Education

B

Dev

P2 S EF



| | |
|---|---|
| Fishery Technology - Deep Sea Fishing Craft & Tackle | 1 |
| Fishery Technology - Fish Liver Oil | 1 |
| Fish Technology - Refrigeration | 1 |
| Fresh Water and Marine Biology | 1 |
| VETERINARY: | |
| Artificial insemination | 1 |
| Sheep Husbandry | 1 |
| Physiology - General | 1 |
| Protozoology | 1 |
| Veterinary Entomology | 1 |
| INDUSTRIES | |
| Food Technology | 1 |
| Paper Technology | 1 |
| Technical Training in teaching methods in Technical Colleges. | 1 |
| Training in Electronics | 1 |
| Manufacture of Boring tools. | 1 |
| Sericulture | 2 |
| CO-OPERATION: | |
| Subjects to be specialised in, to be decided in due course. | 2 |
| | 26 |

2/3

OTM
30/11/45

| | |
|---|---|
| IRRIGATION-- | |
| (Subjects not yet defined) | 4 |
| CIVL ENGINEERING-- | |
| Reinforced concrete structurs<br>Prestressed structures<br>Construction of hospitals and health centres | 2 |
| | 6 |
| Grand Total | 42 |

44

Local Administration Department.

U.O.NOTE NO.31630-1.H. DATED 5TH DECEMBER 1945.

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Sub: Scholarships for Advanced Studies Abroad, 1946-47

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Ref: E. & P.H. U.O. Note No.48946C-45-9 Edn. dated 30th November 1945.

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ASST. SECRETARY TO GOVERNMENT
5 - DEC 1945
EDUCATION AND PUBLIC HEALTH DEPT.

This department has not proposed to send any Government Servant for study abroad in 1946-47 under the Government of India Scheme. Particulars in Form 'A' in respect of three private candidates, whom it is proposed to send for overseas training in Highway Engineering in 1946-47 are shown in the Appendix.

55542

J.L. W(ood).
5-12-45.

To the Education and Public Health Department
(with enclosures)

Forwarded. (By Order.)

GBS.5.12.

SUPERINTENDENT.

-APPENDIX-
(attached)

## A P P E N D I X.

Private candidates sponsored by the Government of Madras for 1946-47.

| Subjects. | Total Number of Students. | Types of courses required. | Suggestions if any as to institutions in which students should be placed. | Remarks. |
|---|---|---|---|---|
| 1. | 2. | 3. | 4. | 5. |
| 1. Highway Research<br>2. Plant and Plant Operation<br>3. Construction | Three students<br>Two Graduates in Highway Engg. passing out the College in April, 1946 and one graduate in Mechanical Engg. | I. Highway Research<br>(a) Research organisation, setting up of Research Stations, Test tracks, testing of road materials etc.<br>(b) Soil mechanics and soil research<br><br>II. Plant and Plant Operation:<br>Use, organisation and maintenance of road plant and machinery, equipment of maintenance and field workshops etc.<br><br>III. Construction:<br>(a) Low Cost roads<br>(b) Bridging. | 1. London University.<br>2. Massachusets Institute of Technology.<br>3. Cornell University. | Low cost roads it is presumed will include roads of stabilised earth Bridges should be a special study. |
| | The graduate in Mechanical Engg. may be selected from the first two for plant and plant operation. | | | |
| | Two graduates in Highway Engg. may be selected out of the first four. | | | |

49

C.F. 32 (a).

EDUCATION Department | Received Registered

From (Name) Dr. S.R.U. Savoor, M.A., D.Sc., I.E.S.,
Designation Director of Public Instruction,
Station Madras.

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

ASST. SECRETARY TO GOVERNMENT EDUCATION AND PUBLIC HEALTH DEPT. 6 - DEC 1945

Enclosures:

R. C. No. 4368-C/45-3 dated 5th December 1945.

Sir,

Subject: Scholarships for advanced studies abroad - 1946-47

R e f: Govt. Memorandum No.48946-C/45-8 Edn., dated 30-11-45.

---

With reference to the Government Memorandum cited above I have the honour to enclose herewith the Form "A" duly completed inrespect of the 14 private candidates and 10 Government servants. A separate list showing the subjects arranged in the order of preference based on the relative degree of importance is also submitted herewith.

2. In this connection, I may point out that Sri V. Kalyanaraman of the College of Engineering, Guindy, who is one of the candidates proceedings to the United States America for higher studies this year has proposed to take up the subjects & "Hydraulic Engineering" and "Municipal Engineering" for post-graduate study and research. But the Government have indicated that no candidate has been selected so far for these two subjects and have

50



have now proposed to select 2 candidates for each of these 2 subjects. This may kindly be examined by Government and suitable correction made in the Form 'A' if found necessary.

3. I shall submit shortly my report in regard to the subjects for which suitable Government servants can be selected for higher studies abroad.

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

Muhammad
5.12.45

for Director of Public Instruction.

RVR 5/12/-

SOL
5/12

51

## ORDER OF PREFERENCE FOR THE 14 PRIVATE CANDIDATES

27

| Order of preference | Subject | No. of candidates | Remarks. |
|---|---|---|---|
| 1 | Generation, Transmission & Utilization of Electric Power | 1 ✓ 2 | No candidate has so far been selected. |
| 2 | Public Health Engineering | 1 ✓ | No candidate yet selected |
| 3 | Electrical measurements | 1 ✓ | No candidate yet selected |
| 4 | Aerodynamics, Aircraft Navigation and Aircraft instruments | 1 ✓ | No candidate yet selected |
| 5 | High way Engineering | 1 ✓ 2 | |
| 6 | Heat and Hydraulic Engineering | 1 ✓ | |
| 7 | Industrial & Administrative Engineering | 1 ✓ | |
| 8 | Generation, transmission & utilization of Electric power | 1 | |
| 9 | Structural Engineering | 1 ✓ | |
| 10 | Hydraulic Engineering | 1 | |
| 11 | Municipal Engineering | 1 | |
| 12 | Highway Engineering | 1 | |
| 13 | Hydraulic Engineering | 1 | |
| 14 | Municipal Engineering | 1 | |
| | | 14 | |

10 selected

Muhammad
5.12.45

for Director of Public Instruction.

SOL
5/12

F o r m 'A'.

| Serial Number | Subjects. | Total Number of students. | Types of courses required. | Suggestions, if any, as to institutions in which students should be placed. | | Remarks. |
|---|---|---|---|---|---|---|
| | | | | U. K. | U.S.A. | |
| (1) | (2) | (3) | (4) | (5) | | (6) |
| | | | Private candidates sponsored by the Madras Government. | | | |
| A. | MECHANICAL ENGINEERING:- | | | | | |
| | (a) Heat and Hydraulic Engineering. | 1 | Post-Graduate Study, Research and Practical training. | C.G.I.<br>G.U. | M.I.T.<br>CU | |
| | (b) Industrial and Administrative Engineering. | 1 | Do. | MCT. | MIT. CU | |
| B. | ELECTRICAL ENGINEERING:- | | | | | |
| | (a) Generation transmission and utilization of electric power. | 2 | | QMC<br>CGI | MIT<br>CU<br>UC | |
| | (b) Electrical measurements | 1 | Do. | KC<br>GU | MIT<br>CU<br>UC | |
| C. | CIVIL ENGINEERING: | | | | | |
| | (a) Structural Engineering | 1 | | CGI<br>EU | MIT<br>CU | |
| | (b) Hydraulic Engineering | 2 | Do. | CGI | MIT<br>CU | |
| | (c) Highway Engineering | 2 | | LU | MIT<br>CU | |
| | (d) Municipal Engineering | 2 | | MCT | MIT<br>CU | |
| | (e) Public Health Engineering | 1 | Two year's Post-graduate study and research. | | Harvad University | |
| D. | AERO-NAUTICAL ENGINEERING:- | | | | | |
| | (b) Aero-dynamics, Aircraft navigation and Air-craft instruments. | 1 | | CGI | MIT<br>CIT | |
| | | | Madras Government Servants proposed to be Deputed or sent on Study Leave | | | |
| C. | Civil Engineering:- | | | | | |
| | (f) Geodesy | 1 | Do. | | CIT<br>Chicago University | |
| L. | Electrical Communications Engineering: | | | | | |
| | (a) Radio Communication. | 1 | Do. | T | MIT<br>UC | |

54

2

## Meaning of Abbreviations.

| | | |
|---|---|---|
| CGI | .. | City and Guilds Institute |
| CIT | .. | Californian Institute of Technology |
| CU | .. | Cornell University |
| GU | .. | Glasgow University |
| EU | .. | Edinburgh University |
| KC | .. | King's College, London |
| LU | .. | London University |
| MCT | .. | Manchester College of Technology |
| MIT | .. | Massachusetts Institute of Technology |
| OC | ... | Owen's College, Manchester |
| QMC | .. | Queen Mary's College, London |
| U.C. | .. | Union College, Schenectady. |

N.B.- Besides the above institutions the following institutions are also suggested:-

1. Carnegie Institute of Technology, Pittsburgh
2. University of Michigan Arbor, Michigan
3. Stanford University, California
4. Illinois Institute of Technology, Chicago
5. Columbia University, New York.

For Director of Public Instruction.

5-12-45

Sd
5/12

55

Public Works Department.

U.O.Note No.5505 B/45-10 dated 5th December 1945.

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Scholarships for advanced studies abroad for 1946-47.

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U.O.No.48946 C/45-9 Education dated 30th November 1945.

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With reference to the Education & Public Health U.O.Note cited above, it is submitted that the Chief Engineer(Irrigation) and the Chief Engineer(General) have promised a reply on 6th December 1945. The Chief Engineer(Electricity) has not yet replied. The Education & Public Health may be informed that a reply to their U.O. note will be sent after the replies from the Chief Engineer's are received.

S.Jayarama Iyer,
Asst.Secretary to Govt.

To the Education & Public Health u.o.

Forwarded/By order

Superintendent.

KS/

PUBLIC WORKS DEPARTMENT.

U.O. Note No. 5505 B/45- , dated 9th December, 1945.

---

Sub:- Scholarships for advanced studies abroad - 1946-47.

Ref:- Education and Public Health Department u.o. 48948 C/45-9 dated the 30th November, 1945.

---

With reference to the Education and Public Health Department's u.o. Note referred to above, the Chief Engineer (Electricity) and the Chief Engineer (General) have furnished the particulars called for. The Chief Engineer(Irrigation) has not yet furnished the particulars.

2. The Chief Engineer (Electricity)'s suggestions regarding the subjects etc. may be accepted.

As regards the Chief Engineer (General)'s reply, items I and II of the details furnished by him in respect of private students and the details in respect of the Sanitary Engineering establishment relate to Development and Education and Public Health Departments respectively and it is presumed that those departments will take necessary action in regard to those items.

3. Copies of the Chief Engineer (Electricity) and Chief Engineer (General)'s letters and of their enclosures may be furnished to Education and Public Health Department. They may be informed that [illegible] communication will follow on receipt of the Chief Engineer [illegible] reply.

ASST. SECRETARY TO GOVERNMENT
1 0 DEC 1945
53983
EDUCATION AND PUBLIC HEALTH DEPT.

V.N. Kudva,
Secretary to Government.

PTO

To Education and Public Health Department u.o. (with enclosures).
Copy to the Development Department, with reference to Chief Engineer (General)'s letter No. 2907-E/45-9, dated the 6th December, 1945. (copy sent to Secretary, Development Department by the Chief Engineer).

Forwarded/By Order.

Superintendent.

EE for H(E)

Action may be taken on receipt of the further Communication referred to by PWD on plants. This may lie over Kitchen.

10-12-45

16/12/45

Copy of letter from the Chief Engineer for Electricity, Madras, No. 4944 E/45-4, dated the 6th December, 1945.

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Sub:- Scholarships for advanced studies abroad - 1946-47 -

Ref:- Government Memo. No. 5505 B/45-7, dated 3-12-1945.

---

Particulars in Form 'A' prescribed by the Government of India are forwarded herewith in duplicate.

2. These details relate to the recommendations in para 1 of my letter No. 4944 E/45-1, dated 13-11-1945 viz., deputation for training of private students only.

3. No order of preference is indicated as identical training is recommended to the two private students.

---

Copy of letter from the Chief Engineer, P.W.D.(General, Buildings and Defence), Madras, No. 2907 E/45-9, dated 6th December, 1945.

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Sub: Scholarships for advanced studies abroad in 1946-47.
Ref:- Govt. Memo. No.5505 B/45-7, dated 3-12-1945.

---

P.T.O.

I forward herewith in duplicate, the statements in Form 'A' enclosed to the Government Memo. quoted above in respect of the candidates recommended by me for higher training abroad and for advanced studies in my letter to Government No. 2907 E/45-7, dated 21st November, 1945 and 2907 E/45-8, dated 21st November, 1945.

---

(True Copy/By Order).

Superintendent.
P.W.D.
9.12.45

FORM A.

| Subjects | Total No. of students | Types of courses required | Suggestion if any, as to institutions in which students should be placed. | Remarks. |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| Works Training | Two | -- | One of the candidates may be given training for a period of three years in the works of Messrs. English Electric Co., Ltd., (the company have agreed to afford necessary facilities). | --- |
| | | | The other candidate may undergo identical training with some other manufacturing firm. | |

for CHIEF ENGINEER (ELECTRICITY)

scholarships for ... and ...

Form "A".

Private Candidates sponsored by the Madras Government.

| Subjects. | Total number of students. | Types of courses required. | Suggestions, if any, as to Institutions in which the students should be placed. | Remarks. |
|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) |
| I. Mechanical Engineering | 2 (Mechl. E. Es.) | Practical training in the "Manufacture, installation and testing of boilers." | Babcock & Wilcox, Cochrane & Co., Annan Etc. | |
| -do- | 1 (Mech. Engr.) | Training in design and manufacture of machine tools. | Armstrong Whitworth & Co., London, Associated British Machine Tool Makers B.S.A. Tools Ltd., Birmingham, London. | |
| II. Technical subjects. | 1 (Mech. Engr.) | Training in Factory Management. | | |
| III. Civil Engineering. | 5 (Five) | Sanitary Engineering "Training in investigation, design execution and maintenance of Water Supply & Drainage schemes. | London and Manchester Universities. | |
| -do- | 2 | Soil Mechanics .. | Royal Institute of Science, Kensington. | |
| -do- | 2 students (apart from 2 Ex. Engrs. separately provided for) | Reinforced concrete structures Pre-stressed structures construction of hospitals and health centres. | London University. | |

pmj/6-12

SCHOLARSHIPS FOR [illegible] STUDY [illegible] 1946-47.

FORM 'A'.

Madras Government servants proposed to be deputed.

| Subjects. | Total Number. | Types of courses required. | Suggestions, if any, as to institutions in which the deputationists should be placed. |
|---|---|---|---|
| 1. | 2. | 3. | 4. |
| CIVIL ENGINEERING. | 2 Executive Engineers. | Reinforced concrete structures. | London University and Royal Institute of Science. |
| | 1 Executive Engineer, Public Health & | Pre stressed structures construction of Hospitals and Health Centres. | |
| | 1 Executive Engineer, P.W.D. & 1 Municipal Engineer. | Sanitary Engineering for training in the investigation, design, execution and maintenance of water supply and drainage schemes. | Those to be deputed to United Kingdom should attend a course of lectures, say at Manchester College of Technology in Municipal Engineering. As this will not occupy their time fully, it is desirable that they should be attached to the staff of the City Engineer to be given an opportunity to study the maintenance and execution of drainage and water supply undertakings, or be employed on the staff of a Consulting Engineer dealing with the design of water supply and drainage schemes. During the College vacation and before their return to India, they should be given facilities to inspect the modern plants in United Kingdom and in Europe. Presumably, these arrangements could be made by the High Commissioner for India in London. |

For those deputed to go to America, they may be required to take a course of lectures at Harvard or Massachusettes Technical Institute and have practical training work on lines similar to those indicated for the men who are to go to United Kingdom

(True copy)

C. Nagarajan
Superintendent.

ppr.6/12.

INDIAN POSTS AND TELEGRAPHS DEPARTMENT.

Handed in here at ... M.

FRE 272

C.T.O.

12 DEC 45

56464

X TF SIMLA 111 STE 3569 EDHEALTH MADRAS

F -19/6/45/ EIV AAA RECE YOUR TELEGRAM NOVEMBER THIRTIETH AAA

GOVT OF INDIA AGREE TO PROVINCIAL GOVERNMENT AWARDING FIFTY OVERSEAS

SCHOLARSHIPS NEXT YEAR AAA DISTRIBUTION OF SCHOLARSHIPS AMONG VARIOUS

SUBJECTS LEFT TO PROVINCIAL GOVERNMENT ACCORDING TO WHAT SUBJECTS THEY

CONSIDER MOST IMPORTANT AAA IT IS EMPHASISED THAT NAMES AND

PARTICULARS OF CANDIDATES =50= RECOMMENDED BY PROVINCIAL GOVT MUST

REACH THIS DEPARTMENT NOT LATER THAN MARCH THIRTYFIRST 1946 = EDUCATION

Govt. Regd.

This form must accompany = 272 = 19/6/45/ 1946

Eden Press, Calcutta—No. 163 (5123).

57203

Government of India.
DEPARTMENT OF EDUCATION.

ASST. SECRETARY TO GOVERNMENT
13 DEC 1945
EDUCATION, AND PUBLIC HEALTH DEPTT.

Simla, the 11th December, 1945.

EXPRESS TELEGRAM(STATE).

To

Edhealth

Madras

F.19/6/45/EIV AAA Reference your telegram November thirtieth AAA Government of India agree to Provincial Government awarding fifty Overseas Scholarships next year AAA Distribution of scholarships among various subjects left to Provincial Government according to what subjects they consider most important AAA It is emphasised that names and particulars of candidates recommended by Provincial Government must reach this Department not later than March thirtyfirst 1946.

EDUCIND.

Copy by post in confirmation.

Sriyogi Narain
for Asstt. Educational Adviser,
Deptt. of Education, Simla.

=BR=10/xii/45.

Action has been taken on the telegram. This may be added to the main file.
17/12/45

5-7672

GOVERNMENT OF MADRAS.
DEVELOPMENT DEPARTMENT.

U. O. Note No.68148(1) D/45-6 DATED THE 18 TH DECEMBER 1945.

Sub: Education - Technical training abroad - Subjects chosen for 1946-47 - Particulars.

..

With reference to U. O. Note No. 48946 C/45-9, Edn., dated 30-11-1945 as the subject mentioned, 'Form A' furnishing the particulars in respect of the several subjects for training of Government servants relating to this Department is forwarded to Education and Public Health Department. 'Dairying' has been added as additional subject under 'Veterinary'. Several columns in the Form have not been filled up as the Heads of Departments concerned do not appear to possess information regarding the types of courses or names of institutions. Education and Public Health ~~may be~~ requested to address the Government of India for selecting the appropriate institutions either in United Kingdom or United States of America, or ~~in~~ the other countries suggested, in respect of the subjects indicated in the list.

Form 'A' in respect of the subjects under 'Fisheries' for Governments will be forwarded to Education and Public Health separately on receipt from the Director of Industries and Commerce.

T. SIVASANKAR
SECRETARY TO GOVT.

To the Education and Public Health Department. (With Enclosure)
True copy-Forwarded-By Order

Superintendent. 15/1/45

Dept. concerned will (now) have to address the Govt of I direct in respect of their Govt servants. No action is therefore called for on this Circuit. This may be added to Govt Servants file.

21-12-45

21/12/45

'Form A'

Madras Government servants proposed to be deputed or sent on study leave terms.

13

| Subjects. | Total number of students. | Types of courses required. | Suggestions in regard to institutions in which students should be placed. | Remarks. |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| **Co-operation.** | | | | |
| 1. Rural and Urban Credit. | 2 | The candidates are not expected to join any institution or undergo a particular course of training in any institution. They are to go round co-operative institutions, study their methods of working and note points of interest so that on their return they might examine how far the methods and practices obtaining there might be applied to Indian conditions. | Does not arise. | To Tour in Italy, Germany Denmark, Holland, Belgium, France, England and Scotland and Ireland. |
| 2. Agricultural (non-credit) co-operation including methods of supply of agricultural requisites, organisation of subsidiary or rural industries and co-operative farming. | | | | |
| 3. Cottage or small scale industrial co-operatives. | | | | |
| 4. Consumers movement both rural and urban. | | | | |
| 5. Co-operative milk supply, & dairies and creameries. | | | | |
| 6. Land Reclamation societies, Labour societies and co-operative workshops | | | | |
| 7. Co-operative education, propaganda and research Folk schools etc. | | | | |
| **B** | | | | |
| 1. Agricultural Engineering | 1 | D.Sc. or similar degree with ample practical experience. | Information will be sent later. H.E. Cols. (4) (6) on page 99 infra | |
| 2. Agronomy-soil conservation | 1 | " | Texas University U.S.A. or British Columbia Canada. | |
| 3. Fruit Technology. | 1 | " | The Fruit Products Research Laboratory under Prof. D.V. Cruesss, California University U.S.A. Individual workers are at Delaware, Illinois and at the National Canners Association at Washington. U.S.A | Training in most centres is of special kinds and to be complete it is necessary to work for short periods in a few centres other than the place where the main part of the training is taken. |
| 4. Virus Pathology. | 1 | " | University of Wisconsin, Madison U.S.A. | |
| 5. Agricultural Economy. | 1 | " | {Oxford, Cambridge, Durham, Leeds, Reading, Wales, Edinburgh Universities in U.K. | |
| 6. Agronomy General | 1 | " | {Virginia, Iowa, Minnesota Texas, Colorado and North Carolina Universities U.S.A. U.S.A | |

CO-OPERATIVE DEPARTMENT.

AGRICULTURE DEPARTMENT

| | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| VETERINARY DEPARTMENT. | 7. Soil Bacteriology. | 1 | D.Sc.or similar degree with ample practical experience. | Rutgers University New Bonuswick, New Jersy, U.S.A. Cornell University, Ithaca, New York U.S.A. University of Wisconsin, Madison, Wisconsin, U.S.A. University of Illinois, Illinois, U.S.A. | |
| AGRICULTURE DEPT. (CONTD) | 1.Artificial Insemination | 1 | Special Courses. | Any suitable Institution in United Kingdom (Cambridge). | |
| | 2. Dairying. | 1 | " | United Kingdom. | |
| | 3. Sheep Husbandry | 1 | " | Australia | |
| | 4. Physiolog (General) | 1 | " | United Kingdom (Cambridge) | |
| | 5. Protozoology | 1 | " | United Kingdom (London) | |
| | 6. Veterinary Entomology | 1 | " | United Kingdom. | |
| INDUSTRIES DEPARTMENT. | INDUSTRIES. | | | | |
| | 1. Food Technology | 1 | | | |
| | 2. Sericulture. | 2 | | Standford University, California U.S.A. | |
| | 3. Technical training in teaching methods in Technical Colleges. | 1 | | | |
| | 4. Training in Electronics. | 1 | | Northern Polytechnics, London | |
| | 5. Manufacture of boring tools | 1 | | | |
| | 6. Paper Tehhnolgy | 1 | | | |

(True copy)

Superintendent. 18/12/45

2 DRAFTS. DRAFT I. Edn., & P.H.(C) Deptt.

SPECIAL.

U.O.NOTE No. 48946.C/45-16.Edn. dated 22-12-45

Scholarships for advanced studies abroad - 1946-47.

***

In continuation of this Deptt.'s U.O. Note No. 48946.C/45-9,Edn. dated 30-11-1945, the L.A./P.W.D./Dev. Deptts. may be informed that the total number of scholarships allotted by the Govt. of India to this Province is only 50 and that it has been decided in circulation that the scholarships should be distributed to the 4 Deptts. as shown below:-

| | | |
|---|---|---|
| Education | .. | 9 |
| Development | .. | 30 |
| Public Works | .. | 9 |
| Local Administration. | | 2 |

The Dev. and the P.W.D. Deptts. may be requested to ~~consult~~ their Heads of Deptts. and report to this Deptt. the subjects for which their candidates should be selected. If subjects not included in the last advertisement are decided upon qualification required of candidates for the subjects may also be indicated. // Their attention may also be drawn to para 3 of the letter from the Govt. of India, No.D.2610(C)/45-E dated 23-11-45 copy of which was sent to them with this Deptt.'s u.o. note referred to above.

As the Govt. of India want that the advertisement inviting applications for scholarships should be published before 31-12-1945, the matter may be treated as special and the information required ~~sent~~ to this Deptt. as early as possible.

The Deptts. may also take necessary steps for the selection of Govt. servants whom they propose to depute for study overseas under the Govt. of India scheme as was done last time.

To the L.A.Deptt.
" P.W.D. (with encls).
" Devt.

P.T.O.

Draft II.

SPECIAL. 76

DRAFT II.

MEMORANDUM No.48946.C/45-17.Edn. dated

---

Scholarships for advanced studies abroad.

---

Ref: Letter from the D.P.I. R.C.No.4368-C/45-3. Edn. dated 5-12-1945.

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The D.P.I. is informed that the Government of India have allotted only a total number of 50 scholarships to this Province and that of these only nine scholarships are set apart for the Education Deptt. The Director is requested to send very urgently a revised list of subjects for which the candidates have to be selected having regard to the relative importance of the subjects. If subjects which are not included in the last advertisement are recommended, the Director is requested to specify the qualifications that should be required of candidates for such subjects.

His attention is also invited to para 8 of the letter from the Govt. of India No.2610(C)/45.1, dated 23-11-45 copy of which was sent to him with the Govt. Memo.No.48946.C/45-8. Edn. dated 30-11-45.

2. As the Govt. of India want that the advertisement inviting applications for scholarships should be published before 31-12-1945, the matter should be treated as specially urgent.

To the D.P.I.

SPECIAL 17

Government of Madras.
Education and Public Health Department.
Memorandum No. 48946/C/45-17 Edn. dated 24-12-1945.

...

Sub: Scholarships - Advanced studies abroad.

...

The Director of Public Instruction is informed that the Government of India have allotted only a total number of fifty scholarships to this Province and that out of this only nine scholarships are set apart for Education department. It has been decided that these nine scholarships may be awarded for the eight subjects in order of preference indicated in the statement annexed to Director's letter No.4368.C/45-3 dated 5th December 1945, two scholarships being granted for the subject "Generation, Transmission and Utilization of Electric power". As two of these subjects namely 'Public Health Engineering' and 'Electrical measurements' (items 2 and 3 in the list) are new additions, the Director is requested to send very urgently a note specifying the qualifications that may be prescribed for the candidates to be selected for each of the two subjects.

To the D.P.I.

GOVERNMENT OF MADRAS.
Development Department.

U.O.NOTE.NO.68148(A) D/45-7 Dated 24th December, 1945.

Sub: Education - Technical training abroad - Subjects chosen for 1946-47 relating to deputation of Government Servants.

- - -

In continuation of Development U.O.Note.No.68148(A) D/45-6 dated 18th December, 1945 on the subject mentioned above, particulars relating to the subjects chosen under 'Fisheries' may now be forwarded to Education and Public Health Department, as given by the Director of Industries and Commerce in 'Form A'.

C.V. Narasimham,
Deputy Secretary to Government.

To Education and Public Health Department.

Forwarded / By Order.

SUPERINTENDENT.

CSN.24.12.

FORM. A.

~~PRIVATE CANDIDATES SPONSORED BY THE MADRAS GOVERNMENT~~ MADRAS GOVERNMENT SERVANTS PROPOSED TO BE DEPUTED OR SENT ON STUDY LEAVE TERMS.

| Subjects. (1) | Total No.of. students. (2) | Tpyes of Courses required. (3) | Suggestions, if any as to institutions in which students should be placed. (4) | REMARKS. (5) |
|---|---|---|---|---|
| Fisheries 5 | | | | |
| Fishery technolggy Marketing of fish and fish products. | 1 | Mainly practical training. | Torry Research Station and other important centres in U.K. and similiar centres in U.S.A. | The assistance of the Ministry of Agriculture, U.K. and Bureau of Fisheries U.S.A. may be sought to find out the centres where practical training in organised marketing of fish could be usefully had. |
| Fishery Technology Deep Sea Fishing Craft and Tackle. | 1 | -do- | Hull and Grimsby, Plymouth, Liverpool, Lowstoft in U.K. and the more important Marine Fisheries States under the Bureau of Fisheries U.S.A. | |
| Fishery Technology Fish Liver Oil. | 1 | -do- | British Cod Liver Oil Products (Hull) and important Fisheries stations in U.K. ~~(ABERDEEN)~~ | |
| Fish Technology Refrigeration. | 1 | -do- | Torry Research Station(Aberdeen) and a few other stations in U.K. and U.S.A. | |
| Fresh Water and Marine Biology. | 1 | -do- | 1. Westmore Land, Ambleside, Fresh Water Station.<br>2. Liverpool University (Experimental, Ichthiology)<br>3. Plymouth Biological Station (Saltwater Ichthiology)<br>4. Royal Irish Acadamy (Fish Section)<br>5. Edinborough University (The Aquatic manuring centre at Millport Biological station under Dr. Gross.)<br>6. Watford- -The, water Pollution Research Laboratory<br>7. Birmingham--Minworth Laboratory.<br>8. Aberdeen-Torry Research Station(Food investigations) | |

42

81

CSN.24.12.

True Copy. By Order.

SUPERINTENDENT.

| | | |
|---|---|---|
| | (i) | Class of Subordinates. |
| | (ii) | Censure |
| | (iii) | Fine(in case of persons of inferior service only). |
| | | Withholding of increments |
| | (A) (iv) | Withholding of promotion including stoppage at an efficiency bar. |
| | (A) (v) | Reduction to a lower rank with seniority list or to a lower post of time scale whether in the same service or in another subordinate service or to a lower stage in a time-scale. |
| | (IA) | Recovery from pay of the whole or part of any primary loss caused to Government or to a local body by negligency or breach or orders |
| | (VII) | Suspension |
| | (VIII) | Removal or dismisssl from the Civil Service of the Crown. |
| | | Appellate Authority. |

GOVERNMENT NO.

ASST. SECRETARY TO GOVERNMENT
2 5 DEC 1945
EDUCATION AND PUBLIC HEALTH DEPT.

Saved 58926 B7

C

43

P 7 Conte

Government of Madras
Public Works Department

Memorandum No. 5505 B/45 dated 24th December 1945.

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Subject:- Scholarships for advanced studies abroad.

---

A copy of Education & Public Health(G) Department's u.o. Note No.48946 G/45-16 Edn dated 22nd December 1945 is forwarded to the Chief Engineers in continuation of Memorandum No.5505 B/45-7 Public Works dated 3rd December 1945.

2. The number of Scholarships allotted by the Government of India to this Province is only 30 and of this 9 have been distributed to this department as against 14 tentatively proposed under Group III in the list appended to this Government's letter No. 48946 G/45-7 Edn dated 30th November 1945 to the Government of India, Department of Education (copy communicated to the Chief Engineers with this department's Endorsement No.5505 B/45-8 dated 4th December 1945.) The Chief Engineer(General, Chief Engineer(Irrigation) and Chief Engineer(Electricity) are requested to report in consultation with each other the subjects (including Sanitary Engineering) for which the candidates should be selected. If the subjects not included in the last advertisement are decided upon, qualification required of candidates for the subjects may be clearly indicated with full details. As the Government of India want that the advertisement inviting applications for scholarship should be published before 31st December 1945 they are requested to treat the case as special and to send the information required immediately. A consolidated reply may be sent by the Chief Engineer(General.)

3. The Chief Engineers are also required to report separately the names of Government servants whom they propose to depute for study overseas under the Government of India scheme as was done last time.

V. [illegible]
Secretary to Govt.

To the Chief Engineer(General)with enclosure)
" -do- (Irrigation) -do- }
" -do- (Electricity) -do- }

Copy to the Education & Public Health Department.
Forwarded/By order

(Bottle) S. Rajamanni 27.12.45.
Superintendent.

KS/

No action is called for.
This may be added to the Main File.
Approved by KS

SPECIAL. LOCAL ADMINISTRATION DEPTT.

ASST. SECRETARY TO GOVERNMENT
2 7 DEC 1945
EDUCATION AND PUBLIC HEALTH DEPT.

59017

44

U.O. Note No.33839-1-H, dated 27th December 1945.

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SCHOLARSHIPS for advanced studies abroad - 1946-47.

Ref: E.& P.H. U.O.No.48946-C/45-16, dated 22/12/45.

--

The two candidates allotted to this department against three originally proposed for overseas training are to undergo training in (1) Highways Research and (2) Plant and Plant operation. The three subjects mentioned by the Chief Engineer (Communications) are arranged in the order of preference. So the subject mentioned third in the order of preference has to be omitted.

2. This year's (1945) advertisement will be found at pages 29-31 of G.O.No.960, L.A., dated 24/4/1945. The subject shown in the portion of the advertisement relating to the Highways Department is "Civil Engineering - Highways Engineering"

The subjects for training for 1946 selection may be shown as below:-

APPENDIX IV.

" For absorption in the proposed Highways Department.

..

A. Mechanical Engineering - Plant and Plant operation.
C. Civil Engineering - Highway Engineering - Highway Research".

No other alteration is necessary in the form of advertisement

adopted last year so far as this department's candidates are concerned.

** **

After approval copy of paragraphs 1 and 2 above may be sent u.o. to E.& P.H. for information.

J.L.W(ood),
27/12/1945.

To the E.& P.H. Department.

Forwarded/By order

Superintendent.

TPJ.

Special Memo No 48946 c/45-18 Edn 2, 3+4 -46

Scholarships - Advanced Studies abroad.

45

The DPI is requested to expedite his reply to Govt. Memo. No 48946/c/45-18 Edn 2, 4-12-45 on the subject mentioned above.

DPI 3/1/46

3/1/46 ES 3-1-46

DSM 3/1/46

Dy tPWD also reminded on 3/1/46.

Sectt. II-16—20,006—23-10-39.

PUBLIC WORKS DEPARTMENT.

Special

ASST. SECRETARY TO GOVERNMENT B 3 JAN 46 44 PUBLIC WORKS DEPARTMENT

C

SUBMITTED that the Public Works Department may be requested to expedite their reply to the unofficial reference No. 48946/(45-46)Edn. noted on the margin regarding which reminders have already issued on—

Dated 22-12-1945.

Subject.

Scholarships for advanced studies abroad - 1946-47

jjh. 3/1/46. 19 .

19 .

19 .

E 3-1-46

To

The Public Works Department u.o.

---

Legal 3673/19-6-1939 Public Services - Subordinate Services -

Temporary posts of Demonstration Maistries of Agricultural Department and Boring Maistries of Industries Department - Promotion from lower to higher grade - Pay of higher grade allowed.

921

2 C PWD

ASST. SECRETARY TO GOVERNMENT 438 3 JAN 1946 EDUCATION AND PUBLIC HEALTH DEPT.

Reminder

E&PH

a memo has been sent to the CE's on 24.12.45 (copy sent for reference). A subsequent reference was made from E&PH on 27.12.45 from E&PH stating that certain candidates selected for 1945-46 (3 in number) have given up the Scholarships & this fact may be taken into account while selecting subjects for scholarships for 1946-47. This was communicated to the CE's on 27.12.45 in confirmation of the memo. The CE(El) has been asked to send a consolidated reply. He was reminded on 29.12.45 and 2.1.46. He has promised to send a reply by Saturday. the 5th January. E&PH may be informed that a reply to their memo. note dated 22.12.45 & note dated 27.12.45 will be sent as the CE's reply is received.

3.1.46 E&PH

3.1.46. 3/1.46.

P.W.D.memo.no.44B/46-1
3.1.46.

E&PH(C)

PWD's final reply may be awaited till 8-1-46.

E 3-1-46.

3/1/46

91

C

Development Department

U.O.Note No.68148 (A) D/45--9 dated 4--1--46. 47

ASST. SECRETARY TO GOVERNMENT 7 JAN 1946 1009 EDUCATION AND PUBLIC HEALTH DEPT.

Sub:--Education-Technical training abroad-Scholarships for sponsored candidates--Selection of subjects for 1946--47.

Ref:--E & P.H. U.O.Note No.48946 C/45-16 Education dated 22-12-45.

--

A list giving particulars in the prescribed 'Form A' regarding the subjects for which thirty candidates may be selected for thirty scholarships allotted to this department is forwarded to the E & P.H. Department as desired in their U.O. cited.

Information regarding the qualifications to be prescribed for candidates in respect of new subjects which were nd advertised last year is also enclosed.

The attention of the E & P.H. Department is invited to para 1 of Development U.O.note 68148(A)D/45-6 dated 18-12-45 in which they were requested to address the Government of India on the selection of appropriate places of training in the U.K., U.S.A. and other countries.

D.J.C.Crawley,
Under Secretary to Govt,

The E & P.H.Department,
Copy to The Director of Industries and Commerce,
Forwarded/by Order,

Superintendent. 7/1/46

A.S.T.4.1.46. ***

GOVERNMENT OF MADRAS

TELEGRAMS - Abbreviated address - District Textile Control Officers -
"DISTEX" - Registration of - S a n c t i o n e d.

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

DEVELOPMENT DEPARTMENT

G.O.No. Ms. 4373 dated the 12th October 1944

Read:

From the Provincial Textile Commissioner No. 12773/44 dated 24-9-1944.

...

O R D E R:

Sanction is accorded to the registration of "DISTEX" as the abbreviated telegraphic address of District Textile Control Officers in the Province of Madras.

(BY ORDER OF HIS EXCELLENCY THE GOVERNOR)

T. Sivasankar,
Secretary to Government

To

The Provincial Textile Commissioner
The Accountant-General thro' Finance
All Collectors
The Public Works Department
The Heads of Departments
~~The Secretary to the Government of India,~~
~~Department of Industries and~~
~~Civil Supplies,~~

Forwarded/By Order

Superintendent

DN/12-x.

*****

QUALIFICATIONS FOR NEW SUBJECTS:

| Subject. | Qualifications. |
|---|---|
| Manufacture of electric lamps and accessories. | Must be a graduate or Diplomate in Electrical Engineering and must have mechanical workshop training for at least two years. |
| Manufacture of electric fans small motors and starters. | Must be a B.E.(Electrical with two years training in repair work. |
| Chemistry of insecticides and fungicides. | Graduates in Chemistry followed by three years' experience in a testing lab. |
| Design and manufacture of centrifugal pumps deep well ~~tube~~well and tubewell pumps and air lift pumps. | B.E.Mechanical or L.M.E followed by at least one year experience with pumps. |
| Manufacture installation and testing of boilers. | B.E.(Mech) with experience of boiler testing. |

GOVERNMENT OF MADRAS

Abstract

Leave – Grant to British Military Officers and other ranks in temporary civil employ whose leave is ~~xxxxxxxxx~~ governed by the Military War Leave Rules – Letter from the Government of India – Recorded.

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Finance Department

G.O.Ms.No.1345 dated 31st December 1945.

Read the following from the Government of India, Home department, No. 245/45-Ests., dated 11th December 1945.

ORDER

Recorded.

(BY ORDER OF HIS EXCELLENCY THE GOVERNOR)

V.V.Subramanian,
Deputy Secretary to Government.

To the Accountant General.
" Departments of Secretariat. } with enclosures.
" all Heads of Departments.

True Copy/Forwarded/By Order

Superintendent

***

Copy of letter No. 245/45-Ests., dated the 11th December 1945, from the Government of India, Home Department.

Form A.

| S.No. & Subject. | Total No. of Students. | Types of courses. | Suggestions if any as to institutions in which students should be placed. | Remarks. |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| 1. Canning and food preservation. | 1 | Practical course coupled with part time theoretical training. | | |
| 2. Manufacture of Micanite | 1 | Practical course. | | |
| 3. Fuel technology and design and furnaces and kilns. | 1 | University course supplemented by practical training. | | |
| 4. Oil Technology and Hydrogenation | 1 | Practical course with parttime ~~theory in training.~~ training in theory. | | |
| 5. Wood and lignite distillation and utilisation of products. | 1 | University course followed by practical. | | |
| 6. Manufacture of films. | 1 | Practical. | | |
| 7. Electro Chemistry with special reference to acids. | 1 | University course followed by practical training. | | |
| 8. Design and manufacture of machine tools | 1 | --do-- | | |
| 9. Manufacture of batteries | 1 | Practical course | | |
| 10. Sound technology accoustics and recording | 1 | University course followed by practical. | | |
| 11. Soil Physics. | 1 | University course. | | |
| 12. Lithography and printing technology | 1 | Practical course. | | |
| 13. Leather chemistry and treatment of leather | 1 | Practical course. | | |
| 14. Ground Engineering. | 1 | University course followed by practical. | | |
| 15. Manufacture of electric lamps and accessories. | 1 | Practical. | | |
| 16. Manufacture of electric fans, small motors and starters. | 1 | Theoretical followed by factory training. | | |
| 17. Manufacture of springs and heat treatment of metals | 1 | Practical course. | | |
| 18. Manufacture of agricultural implements | 1 | D.Sc. or Similar degree with ample practical experience. | | |
| 19. Plastics and manufacture of products like bakelite | 1 | Theoretical followed by practical training. | | |
| 20. Design and manufacture of radio sets. | 1 | Practical course. | | |
| 21. Manufacture of drugs and pharmaceutics. | 1 | Practical course. | | |
| 22. Ceramics and manufacture of ceramic ware | 1 | University course followed by factory training. | | |
| 23. Chemistry of insecticides and fungicides | 1 | Theoretical followed by practical training. | | |
| 24. Manufacture of paints | 1 | Practical course. | | |
| 25. Manufacture of alloys ~~steels~~ Steels | 1 | Practical course. | | |
| 26. Factory Engagement | 1 | Theoretical course followed by practical. | | |

| | | |
|---|---|---|
| 26. Factory management | 1 | Theoretical course followed by practical. |
| 27. Light metal spinning. | 1 | Practical course. |
| 28. Marine Engineering and designing of ships power boats. | 1 | Theoretical followed by practical. |
| 29. Design and manufacture of Centrifugal pumps deep well borewell and tube well pumps and air lift pumps. | 1 | Practical supplemented by theory. |
| 30. Manufacture of installation and testing of boilers. | 1 | --do-- |

True Copy,

Superintendent.

A.S.T.4.1.46.

***

| | |
|---|---|
| Oxford institute of Agricultural research United Kingdom | Besides visit to Rothamstead and other Factories in the United Kingdom. |
| Messrs. Ransomes and Jefferies, Ipswich England. | |
| Messrs. John Deere, Moline United States of America. | Besides visits to other factories in the United States of America. |

True Copy / By order.

5746.
Superintendent.

ASST. SECRETARY TO GOVERNMENT
7 - JAN 1946
EDUCATION AND PUBLIC HEALTH DEPT.

97

50

Development Department.

U.O.Note No.68148 (A)D/45-10 dated 4--1--46.

Sub:--Education-Technical Training abroad--Deputation of Government Servants for training during 1946--47 Further particulars furnished.

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p71 ante

In the list enclosed with Development U.O.Note 68148 (A)D/45--6 dated 18-12-45 it was indicated that further particulars in respect of 'Agricultural Engineering' in col.4 of Form A will be intimated later. The additional information received from the director of Agriculture is now forwarded herewith to E & P H for incorporation in the previous list.

D.J.C.Crawley,
Under Secretary to Govt.

The E & P.H.Department,

Forwarded/by Order,

Superintendent. 5/46

A.S.T.4.1.46.

***

DAILY DESPATCH LIST OF ISSUE
SECTION.

| Date | URGENT | | ORDINARY | | Date when typing examining f.c. are expected to be completed. | Remarks. |
|---|---|---|---|---|---|---|
| | Date of receipt | No. of Pages files to be typed | Date of receipt | No. of Pages files to be typed | | |
| (1) | (2) | (3) (4) | (5) | (6) (7) | (8) | (9) |

TYPISTS
EXAMINERS

Form A.

Statement showing particulars regarding the Government Servants Proposed to be deputed for Technical training abroad during 1946-47

| Subjects. | Total number of Students. | Types of courses required. | Suggestions if any as to institutions in which students should be placed. | Remarks. |
|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) |
| 1. Agricultural Engineering. | 1. | D. Sc., or Similar degree with ample practical experience. | Oxford Institute of Agricultural Research U.K.<br>Messrs. Ransoms Simons & Jefferies, Ipswich England.<br>Messrs John Deere Moline U.S.A. | Besides visit to Rothamstead and other factories in the United Kingdom.<br>Besides visits to other factories in United States of America |

—1—

PUBLIC WORKS DEPARTMENT.

U.O. Note No.5505-B/45-23, dated the 10th January, 1946.




Scholarships for advanced studies abroad - 1946-47.

...

Ref: Edn. & Public Health U.O.Note No.48946-C/45-16, Education, dated 22.12.45 and extract of their notes dated 24.12.45.

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Nine Scholarships have been allotted to this Department. The Chief Engineer (General) in consultation with the Chief Engineer for Irrigation and Chief Engineer for Electricity has furnished the subjects (including Sanitary Engineering) for which candidates should be selected.

Two scholarships for Electrical Engineering:

Note: Applicants should hold a degree or certificate with honours or first class or equivalent very high distinction in Electrical Engineering of the Univeersity of Madras or other Universities or the Indian Institute of Science, Bangalore. Their further courses abroad will be three years of training in manufacturing works. Details of qualifications and the training have already been furnished in the Chief Engineer for Electricity's letter No.4944-E/45-4 dated 6.12.45 a ~~xxxxx~~ Nx.copy of which was sent to Edn. & Public Health with P.W.D. U.O. Note No.5505-B/45- dated 9.12.45.

Three scholarships for the Irrigation Branch:

1. Tube and bore wells
2. Dam Construction
3. Soil Mechanics.

Note: Of these three, one may be a junior supervisor from the Department to be selected by the Chief Engineer for Irrigation and the Chief Engineer (General) and the other two being private students selected by the Selection Committee. These two students may be given the choice to choose two of the subjects between them, the third subject being then allotted to the Supervisor selected by the Public Works Department.

Four scholarships for the Buildings Branch:

1. Sanitary Engineering
2. Reinforced concrete and prestressed structures
3. Soil Mechanics with special reference to foundations
4. Public Health and Medical Buildings (& Architecture).

Note: The studies for Architecture can be arranged through the Royal Institute of British Architects, London.

The qualifications for the above 4 candidates should be a good civil Engineering with Special aptitude for the subjects for which they are selected. The institutions in which they should undergo training have been detailed in Form 'A' enclosed to the Chief Engineer (General)'s letter No.2907-E/45-9 dated 6.12.45 copy of which was sent to Edn. & Public Health Department with P.W.D.U.O. Note No.5505-B/45- dated 9.12.45.

Copies of Chief Engineer (General)'s letter No.2907-E/45-13 dated 7.1.46 and enclosures thereto (containing Chief Engineer for Electricity and Chief Engineer for Irrigation's letters) may be furnished to Edn. & Public Health and they may be informed that a further communication regarding selection of Government servants when this Department propose to depute for study overseas willl follow on receipt of further reports from the Chief Engineers.

Of the four scholarships under the Buildings Branch, items 1,2 & 4 thereunder relate to Edn. & Public Health also.

V.N. KUDVA,
Secretary to Government.

To the Education and Public Health Department (with enclosures)

Forwarded/By Order

GSR/

Superintendent.

Copy of letter from the Chief Engineer (General, Buildings & Defence) No.2907-E/45-13 dated 7.1.1946.

...

Scholarships for advanced studies and higher technical training abroad - 1946-47.

...

Ref: Govt. Memo No.5505-B/45-14 dated 24.12.45 and
Govt. Memo Endt. No.5505-B/45-15 dated 27.12.45.

...

With reference to the Government Memorandum first read above, intimating the allotment of 9 scholarships to this Department, the following distribution is recommended in consultation with the Chief Engineer (Irrigation) and Chief Engineer (Electrical).

I. Two scholarships for Electrical Engineer - vide Copy of Chief Engineer (Electrical)'s letter No.4944-E/45-6, dated 27.12.45, enclosed, for details.

II. 3 scholarships for the Irrigation Branch, as detailed in the Chief Engineer for Irrigation's letter to Government No.1307/45-A. 53 dated 2.1.46, (copy enclosed for ready reference) and

III. 4 scholarships for the buildings branch, as shown below:

One candidate for Sanitary Engineering
One candidate for Reinforced Concrete and Prestressed structures
One candidate for soil Mechanics with special reference to foundations &
One candidate for "Public Health and Medical Buildings" (and architecture).

The studies for Architecture can be arranged through the Royal Institute of British Architects, London.

2. The qualifications for the above 4 candidates should be a good Civil Engineering degree with special aptitude for the subjects for which they are selected. The institutions in which they should undergo training have been detailed in Form 'A' enclosed to my letter No.2907-E/45-9 dated 6.12.45.

3. The report called for in para 2 of the Government memo No.5505-B/45-14 dated 24.12.45, in respect of Government servants, will be furnished separately.

Encl.: (1) Copy of Chief Engineer For Electricity's letter No.4944-E/45-6 dated 27.12.45.
(2) Copy of Chief Engineer for Irriagion's letter No.1307/45-A-53 dated 2.1.46.

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Copy of letter No.4944-E/45-6, dated 27th December, 1945 from the Chief Engineer for Electricity to the Chief Engineer (General).

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SCHOLARSHIPS FOR ADVANCED STUDIES ABROAD.

Ref: P.W. Department Memorandum No.5505-B/45, dated 24.12.45.

***

Applicants for two scholarships for Electrical Engineering included in Group III in the list appended to Government's letter to Government of India No.48946-C/45-7 dated 30.11.1945 should hold a degree or certificate with honours or first class or equivalent very high distinction in Electrical Engineering of the University of Madras or other Universities or the Indian Institute of Science, Bangalore. Their further course abroad will be three years of training in manufacturing works.

2. Details of qualifications and training have already been furnished to Government in my letters Nos.5738(a)-E/44-8, dated 5.4.45 and 4944-E/45-4 dated 6th December, 1945 respectively.

p.t.o.



Copy of letter No.1307-45-A.53 dated 2.1.1945 from the Chief Engineer for Irrigation to the Secretary to Government, Public Works Department.

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Sub: - Scholarships for advanced studies abroad.
Ref: - P.W.D. Memorandum No.5505-B/45-, dated 24.12.45.

...

I consider that 3 (three) students may be selected for advanced studies in the following special fields for 1946-47.

1. Tube and borewells.
2. Dam Construction.
3. Soil Mechanics.

Of these three, one may be a junior supervisor from the Department to be selected by the Chief Engineers (Irrigation) and (General) and the other two being private students selected by the Selection Committee. These two students may be given the choice to choose two of the subjects between them, the 3rd subject being then allotted to the supervisor selected by the P.W.D.

I am sending a copy of this to Chief Engineer (General)

2. The name of the Government servant (other than the supervisor referred to above) to be given study leave sent for study overseas under the Education Department Training Scheme will be reported in due course.

(True Copy)

GSR/

Superintendent.

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Special

C 105

C.F. 32 (a).

EDUCATION Department

From (Name) DR. S. R. U. SAVOOR, M.A., D.Sc., I.E.S.,
Designation Director of Public Instruction,
Station Madras.

Received Registered

To

The Secretary to Government,
Education and Public Health
Department.

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Enclosures :

R. C. No. 47.68-C/45-7 dated 15th January 1946.

Sir,

Sub: Scholarships - Advanced studies abroad - 1946-47

Ref: Govt. Edn and Public Heath Memorandum No.48946-C/45-17 Edn., dated 24-12-1945.

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2370. pk 77 auth

IN regard to qualifications that may be prescribed for the candidates to be selected for the subjects of 'Public Health Engineering' and 'Electrical Measurements' I have the honour to point out that no special qualifications were prescribed for applicants for various subjects for which scholarships were awarded last year. For example, for various subjects coming under Electrical Engineering only degrees in these branches were prescribed without specifying special knowledge of practical experience of the subject selected. In accordance with this principle, I suggest that a degree in Civil Engineering may be prescribed as the minimum qualification for candidates for PUBLIC HEALTH ENGINEERING and a degree in Electrical Engineering or Certificate in Electrical Technology of the Indian Institute of Science may be prescribed as the minimum qualification

for

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: 2 :

for candidates for ELECTRICAL MEASUREMENTS.

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

15.1.46

for DIRECTOR OF PUBLIC INSTRUCTION.

RVR 15/1/-

SR
15/1

VERY URGENT.

GOVERNMENT OF MADRAS
Public Works Department.

-:-

Memorandum No.5505-B/45-24, dated the 17th January, 1946.

2954

Scholarships for advanced studies abroad - 1946-1947.
Ref: Chief Engineer for Irrigation'sletter No.1307/45-A-53 d/2.1.46
Chief Engineer (General)'s letter No.2907-B/45-13 dated 7.1.46

...

The Chief Engineer for Irrigation is informed that the scholarships referred to in Memorandum No.5505-B/45-14 dated 24.12.45 relate only to private students and as such a junior supervisor (a Government servant) suggested by the Chief Engineer for Irrigation for one of the scholarships will not be eligible for it under the scheme. The three subjects referred to by the Chief Engineer for Irrigation will be allotted to three private students.

The Chief Engineer for Irrigation is requested to expedite the report called for in para 2 of the memorandum referred to in para 1 above.

S. JAYARAMA AYYAR,
Assistant Secretary to Government.

To
the Chief Engineer for Irrigation
Copy to the Chief Engineer (General)
" " " Chief Engineer for Electricity
" " " Education & Public Health Department.

Forwarded/By Order

A.J.
Superintendent.

GSR/

(Dorm)
No action is called for. May be added to the main file.
18/1/46

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E. & P.H. Dept. 109

Very urgent

Memo No. 48946.C.45.2 Edn. dated 19.1.46

Government officers - Deputation for advanced studies overseas.

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The attention of the D.P.I. is invited to Memo No.48946 C/45 - 8 Edn., dated 30 - 11 - 1945 and he is requested to submit proposals urgently

(i) for the deputation of Mr.A. R. Ramanathan and Major B.H. Marley of the Engg. College for advanced studies in 'Radio Communications' and 'Geodesy' respectively , and

(ii) for the deputation of officers of the Education Department for the subjects mentioned in paragraph 2 of the Memo.

To

The D.P.I.

R: 10-2-46

14/1/46

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111

Copy of letter No.F.19/6/45-EIV dated the 17th December 1945 from the Government of India, Department of Education, New Delhi.

...

Scholarships for Higher Education Overseas.

...

I have the honour to refer to the correspondence ending with this Department telegram No.F.19/6/45-E.IV, dated the 11th December 1945, and to say that, as already intimated fifty scholarships have been allotted to the Provincial Government for next year (1946-7). It is regretted that it has not been possible to allot the full quota asked for as the requirements of the Provincial Governments far exceeded the number of scholarships available.

2. The distribution of scholarships among the various subjects has been left to the Provincial Governments to decide according to the importance which they may attach to different subjects in relation to their plans of development. It is hoped that the Provincial Governments will proceed with the work of selection of students as early as possible so that the names of candidates recommended by them may reach this Department not later than March 31st, 1946.

3. It has already been suggested to Provincial Governments that they may recommend for each subject two or three candidates, indicating their order of preference. It is further suggested that it may also be indicated whether the Provincial Government would agree to a scholarship being transferred from one subject, for which the Central Government do not consider any candidate sufficiently qualified, to another subject for which there may be more than the required number of suitable candidates. If the Provincial Governments agree with this suggestion, they should also kindly state the maximum number of scholarships which may be awarded for each subject.

4. It is requested that when sending the names of candidates recommended by them, Provincial Governments may kindly forward the applications and all other documents, such as photographs, copies of syllabuses etc. which were asked for in regard to the candidates selected this year and also see that the applications contain the fullest particulars about the candidates, such as age, examinations passed with class obtained and subjects taken at the High School and subsequent examinations, practical or research experience etc.

5. Provincial Governments are already aware that while practical training will no doubt form an important part of most courses of training, it may be made clear that this scheme provides for what are essentially educational courses at educational institutions and not purely technical training which is being dealt with by the Labour Depar The duration of the training will vary according to particular requirem but the average duration of courses contemplated will be 2 years, as normally students will be selected only for post-graduate courses. The Central Government will endeavour to arrange training as far as pos in the countries and institutions indicated by the Provincial Governmen concerned but it is possible, particularly as it will probably be even more difficult to secure admissions in foreign Universities next year, that arrangements desired by the Provincial Governments may not be possi In that event, other suitable arrangements will be made and, owing to t time factor, it may not be possible to make a further reference to the Provincial Governments concerned at that stage. It is, therefore, sugge ted that the Provincial Governments may when forwarding the names of can dates recommended by them, indicate their views as fully as possible, s that at least such arrangements may be avoided as a Provincial Governmen may consider definitely unsuitable for a particular subject.

p.t.o.

112

-2- 113

6. The brochure E.C. 19 "Information for Students desiring to proceed Overseas for Advanced Studies (1945)" is under revision and will be published by the end of this month. A copy will be sent to each Provincial Government as soon as it is ready.

(True copy)

...oOo...

kd. 31. 1.



No.F.2-2/46-O.D.II.
Government of India.
Department of Education.
New Delhi, the 22nd January, 1946.

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

To - All Provincial Governments. Madras

Sub:- Scholarships for Advanced Studies Overseas, 1946-47 - Provincial Schemes.

Sir,

I am directed to refer to this Department letter No. 19-6/45 EIV, dated December 17th 1945 and to enquire what steps the Provincial Government has taken to invite applications for Overseas Scholarships which are to be awarded by the Provincial Government during the year 1946-47. It is assumed that in any case the names of candidates recommended by the Provincial Government together with all relevant documents, will reach this Department not later than March 31st 1946.

2. The Officers concerned in the United Kingdom and United States of America have requested that they may be informed as early as possible the probable requirements of places in regard to Government sponsored students so that they may make the necessary preliminary enquiries without further delay. It is therefore requested that the Provincial Government may let this Department know as early as possible, in no case later than February 28th 1946, the number of scholarships which it is intended to award for different subjects. The information may kindly be given in the following form:-

| Subject | Exact branch of subject | Number of Scholarships. | Nature and duration of training. | Institution or/and country where it is desired that training should be arranged. |
|---|---|---|---|---|
| | | | | |

3. This letter is not intended in any way to modify the procedure suggested in paragraph 3 of this Department letter referred to above.

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

for H. T. Sorley.
for SECRETARY.

---

Karol 22/1
75 copies Dlh.

Edn H(c)

The main file on the subject has been sent to Fin with this Deptt.o. No. 5393 C/45-5 Edn dt 24-1-46. Its return may be awaited.

ASST. SECRETARY TO GOVERNMENT
EDUCATION AND PUBLIC HEALTH DEPT.
28 JAN 1946

E.P.H(C)

~~Very Urgent~~
V. Urgent ~~Special~~.

No. note to. 57393 C/45-9 Edn dt 16/2/46

Scholarships – Advanced Courses of Studies overseas – Sending of "A" Forms to the Govt. of India.

Ref:- This Dept No. note to. 57393 C/45-7 Edn dt 1.2.46.

The ~~D.P.I.~~ P.W.D/ Devt Dept/ LA Dept

may be requested to return to this Dept very urgently the Statement, Sent to ~~him~~ them with this Dept No. note to. 57393 C/45-) Edn dt 1.2.46, along with ~~his~~ their reply. ~~As the~~ The "A" forms are to reach the Govt of India not later than 28th Feb. 1946.

Dated 16.2.46

~~Copy to EH~~

TDS 16/2/46.

DM 16/2/46

EGH (C)

Special.

Government of Madras
Public Works Department
Post Copy of Telephonic Message No.5505 B/45-31 dated 18th Feb.1946.

(0330

From the Assistant Secretary to Government.
To the Chief Engineer(General)




Sub:Scholarships for advanced studies overseas - 1946-47.
Ref: Public Works Department Endorsement No.5505 B/45-26 dated 1st February 1946.
-do- No.5505 B/45-27 dated 4th February 1946.
Telephonic Message No.5505 B/45-29 dated 12th February 1946.
-do- No.5505 B/45-30 dated 16th February 1946.

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Please expedite replies to the two endorsements cited above. As the 'A' forms have to be sent to the Government of India very urgently, please treat this as special.

(True copy)

A.J.ch

Superintendent.

18/2/46

Copy to Education & Public Health with reference to their U.O. note No.5732 5739-C.45-9 Edn. dated 16th February 1946.

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Spaint

DEVELOPMENT DEPARTMENT

U.O.Note No.8886-D/46-2, dated the 20th February 1946.

---

Subject:- Education - Technical Training abroad, 1946-47 - Scholarships for private candidates - Deputation of Government servants - Particulars.

10594

Ref:- Education and Public Health U.O.Note No.57393-C-55-9-Education, dated 16-2-1946.

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A reference has been issued in the matter to the Director of Rubber Industries and Commerce, Director of Agriculture, Director of Veterinary Services and Registrar of Cooperative Societies. Their replies have not been received; they have been reminded. The statement will be returned to Education and Public Health Department as soon as their replies are received. Education and Public Health department may be informed accordingly.

D.D.Sathe,
Under Secretary to Government.

To the Education & Public Health Department.
Forwarded. By order.

vnRajam.

Superintendent.

LOCAL ADMINISTRATION DEPARTMENT.

U.O.NO.3308-2.H. DATED 18TH FEBRUARY 1946.

SUB: Highways Department - Overseas training of Private candidates in 1946-47.

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With reference to E. & P.H. U.O. No.57393C/45-7E dated February 1946 the following details in regard to the overseas training of candidates required for the Highways Department may be sent to u.o. to E. & P.H. Department:--

1) The duration of the training may be two years.

2) Names of three institutions in the order of preference at which the training might be given.--

(a) London University.
(b) Massachusets Institute of Technology.
(c) Cornell University.

J.L. W(ood)
18-2-46.

To the Education & Public Health Dept.,

Forwarded.
By Order.

SUPERINTENDENT.

GOVT. SECRETARY TO GOVERNMENT
1 8 FEB 1946
EDUCATION AND PUBLIC HEALTH DEPT.

DEVELOPMENT DEPARTMENT

U.O.Note No.8886-D/46-S, dated the 20th February 1946.

---

Subject:- Education - Technical Training abroad, 1946-47 - Scholarship for private candidates - Computation of Government sorrwnts - Particulars.

Ref:- Education and Public Health U.O.Note No.5739B-C-45-3-Education, dated 16-2-1946.

---

A reference has been issued in the matter to the Director of Rubble Industries and Commerce, Director of Agriculture, Director of Veterinary Services and Registrar of Cooperative Societies. Their replies have not been received; they have been reminded. The ata owent will be returned to Education and Public Health Department as soon as their replies are received. Education and Public Health department may be informed accordingly.

D.D.Matic,
Under Secretary to Government.

To the Education & Public Health Department.
Forwarded. By order.

Superintendent.

vmda.jam.

U.O.REPLY NO.4368-C-45-12.

Office of the
Director of Public Instruction,
Madras, Dated 19--2--1946.

SUB: Scholarships - Advanced Studies overseas - Sending of "A" Forms to Government of India.

REF: Govt. Edn and Public Health (C) U.O.Note No.57393 C/45-7 Edn dated 1-2-1946.

---

Resubmitted

2. In regard to the nature and duration of training the following remarks are submitted.

The following may be stated under the column 'Nature and duration of Training':

(1) Engineering subjects:

"Ordinarily two years' post-graduate study and research with visits to works, factories, etc. and practical training during vacation, followed by about a year's practical training".

(2) Educational subjects:

"Two years' post-graduate study and research."

3. As regards specifying three institutions in respect of each of the subjects I do not know whether it is any use mentioning the Universities as the students will have to go wherever accommodation can be found for them especially in view of the Universities in the United Kingdom being full. However I suggest the following institutions in the order of preference for the Educational subjects:

(a) Pure Mathematics:
1. Cambridge.
2. Oxford
3. London
4. Edinburgh.

(b) History & Politics:
1. Oxford.
2. London.
3. Cambridge.
4. Edinburgh.

(c) Botany:
1. Cambridge
2. Edinburgh
3. London.
4. Oxford.

(d) Zoology:
1. Cambridge
2. London.
3. Edinburgh.
4. Oxford.

In regard to the suggestion of more institutions than those already suggested, I amy state that it is not known what new courses have been introduced in several of the institutions in the United Kingdom since 1939. Moreover, since there will be great difficulty in finding places in institutions and works

and

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and factories it seems desirable that those responsible for placing students are not restricted in the choice of institutions. As they are better informed than we are, I think it would be desirable to leave the choice entirely to those who have to find places for the candidates. I, therefore, suggest that the Government of India may be informed that our candidates may be placed in any Institution that offers a course of the requisite standard in the subject concerned if places cannot be found for them in the institutions mentioned against the various subjects.

for Director of Public Instruction.

To

The Secretary to Government,
Education & Public Health Dept.
Fort St. George, Madras.
(with 'A' forms)

APPENDIX:I:

## F O R M A:

### PRIVATE CANDIDATES SPONSORED BY THE GOVT.OF MADRAS.

| Subject and Exact branch of subject. (1) | ~~Total~~ No. of scholarships. (2) | Nature and duration of training. (3) | Institution or/ and country where it is desired that training should be arranged. (4) | | Remarks. (5) |
|---|---|---|---|---|---|
| | | | U.K. | U.S.A. | |
| A.Mechanical Engineering | 2 | | | | |
| (a) Heat and Hydraulic Engg. | 1 | Post-Graduate Study, Research and Practical training. | G.G.I. G.U. | M.I.T. CU | |
| (b) Industrial & Administrative Engineering. | 1 | do. | M.C.T. | M.I.T. CU | |
| B.Electrical Engineering | 3 | | | | |
| (a) Generation, transmission and utilisation of electric power. | 2 | | Q.M.C. C.G.I. | M.I.T. C.U. U.C. | |
| (b) Electrical measurements. | 1 | do. | K.C. G.U. | M.I.T. C.U. U.C. | |
| C.Civil Engineering: | 3 | | | | |
| (a) Structural Engineering | 1 | | C.G.I. E.U. | M.I.T. C.U. | |
| (b) Highway Engineering | 1 | do. | L.U. | M.I.T. C.U. | |
| (c) Public Health Engineering | 1 | Two year's Post-graduate study and research | | Harvad University. | |
| E.Aeronautical Engineering: | 1 | | | | |
| (a) Aerodynamics, Aircraft navigation and Aircraft instruments. | 1 | | C.G.I. | M.I.T. C.I.T. | |

Generally 2 yrs Post graduate study and research with visits to works factories etc and prac trg during vacation followed by atleast a years prac trg.

PTO

Meaning of Abbreviations.

CGI. City and Guilds Institute.
C.I.T. Californian Institute of Technology.
CU Cornell University.
GU Glasgow University
EU Edinburgh University.
KC King's College, London.
LU London University.
M.C.T. Manchester College of Technology.
M.I.T. Massachusetts Institute of Technology.
~~OC.~~ Owen's College, Manchester.
Q.M.C. Queen Mary's College, London.
U.C. Union College, Schenectady.

N.B: Besides the above institutions the following institutions are also suggested.

1. Carnegie Institute of Technology, Pittsburgh
2. University of Michigan Arbor, Michigan.
3. Stanford University, California.
4. Illinois Institute of Technology, Chicago.
5. Columbia University, New York.

....oOo...

Form A.

Madras Government servants proposed to be deputed

| Subject and Exact branch of subject. | ~~Total~~ No. of ~~scholarships~~. officers | Nature and duration of training. | Institution or/ and country where it is desired ~~that~~ that training should be arranged. | Remarks. |
|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) |
| C. Civil Engineering: | | | U.K. U.S.A. | |
| (f) Geodesy | 1 | Two year's Post-graduate study and research | C.I.T. Chicago University. | Ordinarily 2 yrs Postgraduate Study and research visits to works factories etc. and prac trg during vacation followed by about a years prac trg. |
| L. Electrical Communications Engineering: | | | | |
| (a) Radio Communication | 1 | -do- do. | M.C.T. M.I.T. G.G.I. C.I.T. C.U. U.C. | |
| N. Education: | | | | |
| Pure Mathematics | 1 | Two years Postgraduate Study and research. | Cambridge, Oxford, Lond. Edinburgh | |
| History & Politics | 1 | | Oxford, Lond. Cambridge Edinburgh | |
| Botany | 1 | | ~~Any English or American University.~~ Cambridge Edinburgh, Lond. Oxford. | |
| Zoology | 1 | | Cambridge Oxford | |
| Engineering Mathematics | 1 | To study Engineering metals Electro-Chemistry, Industrial Analysis etc. | Any English or American Universities. | Remarks Candidates may be placed in any institution that offers a course of the required standard in the subject named. If places cannot be found for them in the institutions named |
| Engineering Physics. | 1 | | | |
| Engineering Chemistry | 1 | | | |
| Engineering Geology. | 1 | | | |

P.T.O.

Meaning of Abbreviations.

CGI. City and Guilds Institute.
C.I.T. Californian Institute of Technology.
CU Cornell University.
GU Glasgow University
EU Edinburgh University.
KC King's College, London.
LU London University.
M.C.T. Manchester College of Technology.
M.I.T. Massachusetts Institute of Technology.
OC. Owen's College, Manchester.
Q.M.C. Queen Mary's College, London.
U.C. Union College, Schenectady.

N.B: Besides the above institutions the following institutions are also suggested.

1. Carnagie Institute of Technology.
2. University of Michigan Arbor, Michigan.
3. Stanford University, California.
4. Illinois Institute of Technology, Chicago.
5. Columbia University, New York.

....oOo...

C2 133

No. note. No. 5505B/45-33 dated 23.2.46 P.W.D.

Scholarships - advanced courses of studies overseas - 1946-47.

Ref:E.P.H.No.57393.C/45-7 Edn dated 29-1-46, and U.O. 57393C/45-7 dated 1-2-46.

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In regard to the grant of scholarships for advanced studies overseas for 1946-47 E.&.P.H. want the following informations:-

(1)particulars about the maximum number of scholarships that may be awarded to each of the subjects (re.9 subjects in Appendix III to the advertisement inviting applications for scholarships.)

(2)Statements in form 'A' in complete form in respect of

(a)private students and

(b)Government servants.

2. The reports received from the Chief Engineers in this respect are dealt with below:

Item (1)in para 1 above -particulars about the maximum number of scholarships that may be awarded to each of the subjects in Appendix III.

| Names of subjects as in Appendix III. | No.of scholarships now alloted to each subject. | Maximum number of scholarships that may be awarded to each subject. | Remarks. |
|---|---|---|---|
| (1) | (2) | (3) | (4) |
| B.Electrical Engineering. | 2 | 2 | In view of the difference in academic qualifications prescribed for candidates selected for 'B' Electrical Engineering in Appendix III and 'C.Civil Engineering in Appendix III and 'A.Mech.Engineering' in Appendix IV, C.E.(E) does not consider it possible to transfer a scholarship |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| ~~fxxmxxxxxsu~~ | | | from one subject to another subject as between "Electrical Engineering" and "Civil and Mech.Engineering', although such transfer may be possible within the several subjects included under "C.Civil Engineering" in Appendix III and "A.Mech.Engineering" in Appendix IV. |

C. Civil Engineering
(Irrigation subjects)

| | | |
|---|---|---|
| (a) Hydrology in relation to tube and bore wells. | 1 | 1 |
| (b) Dam construction | 1 | 2 |
| (c) Soil Mechanics of the earthern and composite dams | 1 | 2 |

Note:- The C.E (I) has suggested that in addition to the above three subjects one scholarship in a fourth subject vix. 'river conservancy and flood control' may also be offered, if any candidate is considered unsuitable for the above three subjects.

Separate file (extracts taken)

C. Civil Engineering (other than irrigation).

| | | |
|---|---|---|
| (d) Sanitary Engineering | 1 | 5 |
| (e) Reinforced concrete and prestressed structures | 1 | 2 |
| (f) soil Mechanics with special reference to foundations | 1 | 1 |
| (g) Public Health and Medical Buildings (Architecture) | 1 | 1 |

Item (2) in para 1 above i.e. ~~on p. 39-40~~ statements in form 'A'

(a) Private students: A statement is put up at (X). — p 139 infra

The particulars therein are subject to the following remarks:-





~~(a) Private students:- A statement is put up at (X)~~
~~The particulars therein are subject to the following remarks:~~

The C.E.(E), C.E.(I) and C.E.(H) all insist that the object of the deputation should be not so much a further broadening in theory as provision of scope for practical training. The C.E.(E) insists on training in one of the four firms mentioned in form 'A' which he considers as essentially educational as in any post-gradue course in any University. In regard to condidates for 'Irrigation subjects' the C.E.(I) states that what is required for the candidates is actual practical training in day-to-day field work on large schemes and its organisation of a nature the P.W.D. subordinate officers are called upon to attend to. It was in this view that for candidates for 1945-46 a two year training comprising eighteen months training in the U.S.A. followed by a rounding off tour of 6 months in other countries was proposed. Institutions in the U. S.A. is at present handling major problems of Irrigation analogous to what obtain in India. The C.E.(I) therefore wants only practical training on the above lines. The C.E.(I) suggests that, if Government still consider a post graduate course necessary, the main object outlined above may be kept in view and the candidates be required to undergo -- --

at least minimum of six months training in the concerned branches of the Bureau of Reclamation or T.V.A. in the U.S.A. after the post-graduate course, their terms of scholarship being extended suitably to permit this. This alternative is however only the second in preference from the "Irrigation" point of view. In regard to the institutions in U.S.A. the C.E.(I) states that in the absence of any definite up-to-date information about facilities in foreign universities, it has not been possible for him to particularise any of the colleges or universities abroad for the subjects in view and that the courses in the institutions suggested by him in form A would be near to what is required. The Chief Engineer (Gl.) endorses the views of the C.E.(E) and C.E.(I).

(b) Government Servants: It has been proposed to depute for 1946-7 two Govt. servants of the grade of S.E. for training in Reinforced concrete structures (Civil Engineering). It has been generally accepted that Govt. officers are to be deputed only under the Govt. of India Labour Dept. Scheme. But C.E.(I) has remarked as follows on the point on a previous occasion:

"..... This scheme as envisaged by me and appd. by the Govt. does not fit in either with the Govt. of India's Edn., Deptt. scheme or the Labour Deptt. scheme. It is immaterial if the Government of India, Edn. deptt. or the Labour Deptt. sponsors the scheme. What we require is that facilities should be given for such officers to go abroad and acquire necessary experience of the type required by us."

The C.E. (Gl., E. & D.) has suggested as on the present proposal to send ~~=~~ 2 S.Es. for training that the H.C. for India may be approached to arrange for their practical training in consultation with the university authorities and the Ministry of works after adjudging the standard of knowledge already possessed or attained by further course in England. One Govt. officer sent in 1945-6 (⊗ Sri K. V. Ekambaram.)



1945-6 for training has been brought under the Labour Deptt. scheme. That deptt. has also been asked to do the needful in respect of the other two officers selected for training abroad. ~~they may be left under the Edn. Deptt.~~ In the circumstances the two S.Es. may be brought under the Labour Deptt. scheme only and not under the Edn. deptt. scheme. (Particulars regarding Govt. servants have not been included in the statement at X - C.E.'s report is still awaited.) and Mr C.E. may be informed accordingly

V.N.K. 23.2.46

3. The C.E.(I) has raised the question of making provision for appointment of the private students who return after training, and issuing ad hoc rules. This may be dealt with separately.

4. The C.E.(I) has suggested that the scheme of training intended for private students be extended to Govt. servants also and considers that candidates employed under emergency provisions should be treated as private candidates for all practical purposes. It is suggested that these candidates, if they get selection, may be required to resign their emergency appointments, the moment they proceed abroad. The Chief Engineer (I) requests that the prospectus of the scheme of advanced studies may be modified suitably. The C.E.(~~E~~ GL) supports the C.E.(I)'s suggestion and recommends extension of the concession to probationers and approved probationers in the category of Supervisors and suggests that in the case of Govt. Servants mentioned above, they may be asked to bear a moiety of the expenditure of such portion as would have been borne by the Govt. of India, if they are bonafide students, the rest being borne by the Provl. Govt. The above suggestion if approved has to be made applicable to scholarships relating to other depts. also. This dept. may perhaps support the proposal and remit to E&PH for consideration.

Separate file (extracts taken)

5. An extract of the above notes, together with a copy of the extract at A and the statt. in form A on pp 127 & 29 c.f. in original may be sent to S. & P.H., with reference to their M2 C.O. Notes. No.57393-C/45-7, Edn., dated ~~23-1-46~~ 1-1-1946 and 1.2.1946.

Prod. no 5303/45-7

~~23-1-46~~

To E & PH Dept

Forwarded (By order)

V.N.K. 23.2.46

A.J.ch

Superintendent 23.2.46.

FORM

Scholarships for training abroad--Private ca

sponsored by the Government of Madras.

| No. | Subject and Exact branch of subject. | No. of Scholarships. | Nature and duration of training. | Institution and country where it is desired that training should be arranged. | Remarks. |
|---|---|---|---|---|---|
| B. | Electrical Engineering Works Training. | 2 | *3 (Three) years training facturing of electrical m of all kinds and in assoc research work in one of t mentioned in column 4. *If the Government of Indi a post graduate course taken, the diploma in the College of Technology Cour the Imperial College of To London for one year, follow years of practical trainin of the manufacturing firms in column 4. | 1. English Electric Co., or 2. Metropolitan Vickers Co., or 3. B.T.H. Co., or 4. International General Electric Company, U.S.A. — England | In one ca arrangements read been mad Mess English trie., item Colu 4. Arra for other h with on be ma other the name column |
| C. | Civil Engineering, (Irrigation Branch) | | | | |
| | (a) Hydrology i relation to tube and bore-wells | 1 | Sinking of tube and bore problems connected with pu design construction and ma of such installations (2 y | Not specifically mentioned in the curricula of Universities. The Agent-General to the Govt. of India at Washington, U.S.A. may be requested to recommend a suitable training centre. | |
| | (b) Dam Construction. | 1 | Design and construction of (2 years). | 1. California Institute of Technology, Pasadena. 2. Carnegie Institute of Technology, Pittsburgh. | |
| | (c) Soil Mechanics. | 1 | Soil Mechanics including l research on foundations f (2 years) | 1. Carnegie Institute of Technology, Pittsburgh. 2. Columbia University (City of New York).. | |
| C. | Civil Engineering. | 1 | Training in investigation and maintenance of water schemes for 2 or 3 years. | 1. Manchester University; or 2. London University; or 3. Glasgow. | |
| | (d) Sanitary Engineering. | | | | |
| | (e) Reinforced concrete and prestressed structures. | 1 | Training in designs and cal for 2 years. | 1. London University; or 2. R.I.S., or 3. Glasgow University. | |
| | (f) Soil mechanics with special reference to foundations. | 1 | Training in (1) Soil analysis. (2) Soil physics and (3) Soil stabilisation, etc. | -do- | |
| | (g) Public Health and Medical Buildings (and Architecture). | 1 | Special training for 5 year for A.R.I.B.A. (But this tr be reduced according to the tions and previous experien candidate to be sent). A c who has the G.D. Arch., wi exemption of 3 years and ca the R.I.B.A. with further t | 1. University College, London, Bartlett School of Architecture; or 2. Architectural Association's School, London, or 3. Liverpool School of Architecture, Liverpool. | In selection for architecture, it is to be ensured that the candidate possess special aptitude and is likely to profit by the training given. The Sri J.J. School of Arts (Arch. Section) Bombay may be addressed to nominate 3 or 4 Madras students from among whom selection can be |

Note:- If a Govt. diploma

Appendix III.

Form A.

Private candidates sponsored by the Govt. of Madras.

| Subject and Exact branch of subject. | ~~Total~~ No. of scholarships. | Nature and duration of training. | Institution or/ and country where it is desired that training should be arranged. | Remarks. |
|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) |
| B. Electrical Engineering | 2 | 1 | One of the candidates may be given training for a period of 3 years in the works of Messrs. English Electric Co., Ltd., (the company have agreed to afford necessary facilities). The other candidate may undergo identical training with some other manufacturing firm. | |
| C. Civil Engineering: | 7 | | | |
| (a) Hydrology in relation to tube and bore wells. | 1 | | | |
| (b) Dam Construction | 1 | | | |
| (c) Soil Mechanics of the earthern and composite dams | 1 | | | |
| (d) Sanitary Engineering | 1 | Training in investigation, design execution & maintenance of water supply & Dr. schemes. | London and Manchester Universities. | |
| (e) Reinforced concrete and prestressed structures | 1 | | London University. | |
| (f) Soil mechanics with special reference to foundations | 1 | | Royal Institute of Science, Kensington. | |
| (g) Public Health and Medical Buildings (and Architecture) | 1 | | Royal Institute of British Architects, London. | |

Form A.

Madras Government servants proposed to be deputed.

| Subject and Exact branch of subject. | ~~Total~~ No. of ~~scholarships~~. Officer | Nature and duration of training. | Institution or and country where it is desired that training should be arranged. | Remarks. |
|---|---|---|---|---|
| CIVIL ENGINEERING; | 2 Executive Engineers. | Reinforced concrete structures. | London University and Royal Institute of Science. | |
| | 1 Executive Engineer, Public Health & | Pro-stressed structures construction of Hospitals and Health Centres. | | |
| | 1 Executive Engineer, P.W.D.& 1 Municipal Engineer. | Sanitary Engineering for training in the investigation, design execution and maintenance of water supply and drainage schemes. | Those to be deputed to United Kingdom should attend a course of lectures say at Manchester College of Technology in Municipal Engineering. As this will not occupy their time fully, it is desirable that they should be attached to the staff of the City Engineer and given an opportunity to study the maintenance and execution of drainage and water supply undertakings, or be employed on the staff of a Consulting Engineer dealing with the design of water supply and drainage schemes. During the College vacation and before their return to India, they should be given facilities to inspect the modern plants in United Kingdom and in Europe. Presumably, these arrangements could be made by the High Commissioner for India in London. | |

For those deputed to go to America, they may be required to take a course of lectures at Harvard or Massachusettes Technical Institute and have practical training work on lines similar to those indicated for the men who are to go to United Kingdom.

Sp.R

72/45

(Edn(C))

V.O. Note No: 57393 C/45 to Edn dt 28/2/46

Scholarship – Advanced courses of studies overseas – Sending of 'A' Forms to the Govt of I.

Dev. Deptt may be requested to expedite their reply to this Deptt's V.O Note No. 57393 C/45-9 Edn dt 16-2-46 on the subject noted above.

p 1190 F

Sp. to Dev. Deptt 28/2

GS 28/2/46

OSD 28/2/46

Special

Government of Madras.
Development Department.

U. O. Note No. 8886-D/46- dated the 1st March 1946.

Sub:- Education - Technical - Advanced studies abroad 1946-47 - Scholarships for private candidates - Deputation of Government servants - Form A - Detailed particulars.

Ref:- Education and Public Health U.O.Note No.573930/45-7E n., dated the 1st February 1946.

The statements below contain particulars in the form prescribed in Government of India letter No. F2-2/46 D.II, dated the 22nd January 1946 in respect of subjects for the award of scholarships to private candidates and for the training of Government servants. The Heads of Departments concerned are not in a position to furnish more precise information on the subject. The statements may be sent to Education and Public Health Department for transmission to the Government of India.

T.S(ivasankar)
Secretary to Government.

To the Education and Public Health Department (with enclosures).
Copy to the Director of Agriculture (with enclosures).
Forwarded/By Order

Superintendent. 2.3.46

PRIVATE CANDIDATES SPONSORED BY THE GOVERNMENT OF MADRAS. — Form A.

| Subject. | Exact branch of subject. | No. of scholarships. | Nature and duration of training. | Institution or and country where it is desired that training should be arranged. | Remarks. |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A. Mechanical Engineering | (a) Design and manufacture of Centrifugal pumps, deep well borewell and tubewell pumps and airlift pumps. | 1 | Theory supplemented by practical (2 years) | Manchester College of Technology. | Practical at any of the manufacturers say M/s Mather & Platt Manchester. |
| | (b) Design and manufacture of machine tools | 1 | University Course followed by practical training (2 years) | Any British University. | Practical training at M/s. Alfred Herbert &Co. or any other manufacturers of machine tools.. |
| | (c) Manufacture, installation and testing of boilers | 1 | Supplemented by theory (2 years) | Practical at Sterling Boiler Company's Works with part time classes at the local college. | |
| | (d) Manufacture of Agricultural implements. | 1 | D.Sc., or similar degree with ample practical experience 2 years. | 1) Oxford Institute of Agricultural Research U.K., 2) M/s. Ransomes Simons and Jefferies, Ipswich England. 3) Messrs. John Deers, Moline United States of America | Besides visit to Rothamstead and other factories in the U.K. Besides visits to other factories in the U.S.A. |
| B. Electrical Engineering | (a) Manufacutre of Electrical lamps and accessories | 1 | Practical with part time classes 2 years. | At G.E.Co's works or M/s. Westinghouse Works or at any other Electric lamp works. | |
| | (b) Manufacture of electric fans small motors and starters. | 1 | Theoretical followed by practical training. 2 years | London University followed by Works training at Crompton & Engineering Co. Chemsford. | |
| | (c) Manufactureof batteries and dry cells | 1 | Practical course supplemented by parttime theoretical course 2 years. | At G.E.Co's Works. | |
| | (d) Design and manufacture of Radio Sets. | 1 | Theory followed by works training 3 years. | R.C.A. Works U.S.A. or G.E.C. Works England | |
| D. Chemical Engineering | (a) Wood and lignite distillation and Utilisation of products. | 1 | University course followed by practical 3 years. | Any of the U.S.A. Universities where this subject forms part of the curriculum followed by practical training at a factory. | |
| | (b) Manufacture films. | 1 | Practical supplemented by part time courses 2 years. | Ilford Works or Kodak Works. | |
| | (c) Manufacture of paints. | 1 | Practical course supplemented by partime courses 2 years. | Any of the British Paint Works. | |
| | (d) Electro Chemistry with special reference to acids. | 1 | University course followed by practical training 2 years. | Any of the British or American Universities. | |
| E. Aeronoautical Engineering. | Ground Engineering. | 1 | University course followed by practical 3 years. | At any of the British Universities. | |
| F. Marine Engineering. | Marine Engineering and design of ships, power boats. | 1 | Theoretical followed by practical 3 years. | At Glasgow University followed by practical training at Ship building yards. | |
| H. Applied Chemistry | (a) Chemistry of insecticidies and fungincides. | 1 | Theoretical followed by practical training 2 years. | East Mealing U.K. or Royal College of Science London | |
| | (b) Leather Chemistry and treatment of leather. | 1 | Practical course supplemented by part time courses. 2 years. | University of Leeds, U.K. | |
| | (c) Plastics and manufacture of products like Bakelite. | 1 | Theoritical course followed by practical training 2 years. | Any of the U.S.A. Universities followed by Works training. | |
| | (d) Manufacture of drugs and Pharmaceuticals. | 1 | Practical course supplemented by part time classes. 3 years. | Any of the British Firms. | |
| | (e) Manufacture of Oil Technology and hydrogeneration. | 1 | Practical couse with part time training in theory 2 years. | Edinburgh University U.K. | |
| I. Applied Physics. | (a) Fuel technology and design of furnaces and kilns. | 1 | University course supplemented by practical trainig 2 years. | Any British or American University where Fuel Technology forms a distinct unit of instruction. Northern Polytechnic London | |
| | (b) Sound technology accoustics and recording. | 1 | University course followed by practical (2 years) | | Practical Training at His Master's Voice Works. |
| | (c) Soil Physics. | 1 | University Course (2 years) | Agricultural Experimental Station, Rothamstead, Harpenden. | |
| Metallurgy. | (a) Manufacture of alloy steels, | 1 | Practical course supplemented by [illegible] | Any British or American University. At Sheffield University followed by practical training at local [illegible] | |
| | (b) Manufacture of springs and heat treatment of metals. | 1 | Practical course supplemented by parttime courses (2 years) | At Sheffield University followed by practical training at any of | |

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Contd. | (b) Factory management. | 1 | Theoritical source followed by practical 3 years. | Syracuse University U.S.A. for Spinning | |
| | (c) Light ~~—~~ Metal ~~management~~ | 1 | Practical course supplemented part time classes 3 years. | At any of the American Universities for Metal spinning factories. | |
| | (d) Lithography and printing Technology. | 1 | Practical course coupled with part time theoretical training. 2 years | At any of the American Universities followed by practical training at Printing Works. | |
| | (e) Canning and Food preserving | 1 | | The Fruit Products Research Laboratory under Prof. D.V. Cruess, California University, United States of America. Individual workers at Delaware, Illinois, and at the National Canners' Association at Washington United States of America. | Training in most centres if of special kinds, and to be complete, it is necessary to work for short periods in few centres other than the place where the main part of the training is taken. |
| | | | | The Campden Fruit and Vegetable Preservation Research Station University of Bristol, U.K. | Practical training in the factories and in the Industry also will be helpful. |

(True copy)

Superintendent.

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Industries. | 1. Food Technology. | 1 | Theory followed by practical training 2 years. | Stanford University California U.S.A. | |
| | 2. Sericulture. | 2 | Theory supplemented by practical 2 years. | Japan and China | |
| | 3. Technical training in Teaching methods in Technical colleges. | 1 | Theory. 2 years. | Northern Polytechnics, London or any other university where this subject forms a part-time curriculum. | |
| | 4. Training in Electronics | 1 | Theory followed by practical 3 years. | Northern Polytechnics London. | |
| | 5. Manufacture of Boring tools. | 1 | Practical course supplemented by part time classes 2 years. | U.S.A. Bucyrus Well Drill Manufacturing.Co. | |
| | 6. Paper Technology. | 1 | Theory followed by practical. | 1.College of Technology Manchester U.K.<br>2. College of Technology Unversity of Manchester U.S.A. | Practical training at Wiggin Teape Alex Pericks & Co Ltd.<br>(2)Mead pulp & Paper Co. Origaon U.S.A. |
| Veterinary. | 1. Artificial insemination | 1 | Post graduate course 2 years. | i.Institute of Animal Genetics Edinburgh University (U.K)<br>ii.School of Agriculture, Cambridge U.K. | |
| | 2. Dairying. | 1 | " | i.National Institute for Research in Dairying University of Reading U.K.<br>ii.Hannah Dairy Research Instt., Kirkhill, Ayr., U.K. | |
| | 3. Sheep Husbandry. | 1 | " | i.Messey Agricultural College Palmerson, South New Zealand.<br>ii.The F.D.Mc.Master Animal Health Laboratory Sydney University Australia. | |
| | 4. Physiology(General) | 1 | " | i.Animal Nutrition Research Institute, Cambridge University UK.<br>ii.School of Agriculture, Cambridge, U.K.<br>iii.Rowett Research Institute, Bucksburn, Aberdeen(U.K) | |
| | 5. Protozoology. | 1 | " | i.The WelcomeResearch Institute, ~~Buckebrun~~183Euston Road, LondonUK.<br>ii.National Institute of Medical Research Hampstead N.W.D. LondonU.K.<br>iii.Liverpool School of Tropical Medicine, Liverpool, U.K. | |
| | ~~6. Vetyinary Entomology.~~ | ~~1~~ | ~~"~~ | | |
| | 6. Veterinary Entomolgy. | 1 | " | i.Royal College of Science, London U.K.<br>ii.Entomology Dept., Cambridge University U.K.<br>iii.Institute of Agricultural Prasitology (London School of Hygiene and Tropical Medicine)U.K. | |
| Co-operation. | (a)Rural and urban credit.<br>(b)Agricultural (Non-credit) co-operation including methods of supply of agricultural requisites organisation of subsidiary or rural industries, and cooperative farming.<br>(c)Cottage or small scale Industries cooperatives. | The candidates are not expected to joint any institution or undergo a particular course of training in any institution. They are to go pound co-operative institutions, study methods of working and note points of interests so that on their return far | | Italy, Germany, Denmark, Belgium, France, England & Scotland | |

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| | | | | |
|---|---|---|---|---|
| Agriculture. | 1. Agricultural Engineering. | 1 D.Sc. or similar degree with ample practical experience. | i. Oxford Institute of Agricultural Research, U.K.<br>ii. M/s. Ramsomes Simms & Jefferies Ipswich, Englnd.<br>iii. M/s. John Deere, Moline U.S.A. | Besides visit to Rothemstead and ~~other~~ other factories in the U.K. ~~& U.S.A.~~ Besides visit to the factories in the U.S.A. |
| | 2. Agronomy Soil Conservation. | 1 " | i. Texas University U.S.A.<br>ii. British Columbia University Canada.<br>iii. Montreal University Canada. | |
| | 3. Fruit Technology. | 1 " | i. The Fruit Products Research Laboratory under Prof. D.V. Cruesus, California University U.S.A.<br>ii. Indian workers at Delware, Illinois and at the National Canners' Association at Washington, U.S.A.<br>iii. The Campden Fruit and Vegetable Preservation Research Station, University of Bristol, U.K. | Training in most centres is of special kinds, and to be complete, it is necessary to work for short periods in a few centres ~~other~~ other than the place where the main part of the training is taken. Practical training in the Factories and in the Industry also will be helpful. |
| | 4. Virus Pathology. | 1 " | i. University of Wisconsin, Madison U.S.A.<br>ii. School of Agriculture, Cambridge U.K.<br>iii. Rothamstead Experiment Station, Harpenden Hert, U.K. | |
| | 5. Agricultural Economy. | 1 " | i. Oxford, Cambridge, Durham, Leeds, Reading, Wales & Edinburgh Universities in the U.K.<br>ii. Belfast and Montreal Universities in Canada.<br>iii. Kansas, North Carolina, Viriginia, Minnesota, Iowa Universities in the U.S.A. | |
| | 6. Agronomy General. | 1 " | Virginia, Iowa, Texas Unversities in the United States of America. | |
| | 7. Soil Bacteriology. | 1 " | i) Rutgers University, New Brunsick, New Jersy, U.S.A.<br>ii) University of Wisconsin, Madison Wisconsin, U.S.A.<br>iii.) University of Illinois Illinois, United States of ~~Aermica.~~ America.<br>iv) Cornell University, Ithacca, U.S.A. | |

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(True copy)

Superintendent.

LETTER/Ref. No. 48946-C/45-23 Edn. dt 11/3/46

To

The Secy. to the G. of I., Dept. of Edn.,
New Delhi (with encl.)

Sir,

Tech. Edn. - Scholarships for advanced studies overseas - Form A Returns.

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With reference to your letter No.F.2-2/46-O.D.II, dated 22-1-46, I am directed to forward Form "A" returns completed in the manner desired -

(1) in respect of private candidates proposed to be sponsored by this Govt. for the 50 scholarships allotted to this Province; and

(2) in respect of Govt. servants of this Province proposed to be deputed or sent on study leave terms.

As regards (2) above, I am to point out that in my letter No.48946-C/45-7-Edn., dated 30-11-1945, their

no. was given as 42 but that it has since been reduced to 32.

T N S

OSM 10/8/46

Y.O.S.,

W/C 11/8/46.

Form A

154

Private Candidates proposed to be sponsored by the Govt. of Madras. Total — 50.

| Subject and Exact Branch of subject. | No. of Scholarships. | Nature and duration of training. | Institution or/and Country where it is desired that training should be arranged. | | Remarks. |
|---|---|---|---|---|---|
| | | | U. K. | U.S.A. | |
| A. Mechanical Engineering | 2 | | | | |
| (a) Heat and Hydraulic Engg. | 1 | Ordinarily 2 years Post graduate study and research with visits to works, factories etc. and practical training during vacation, followed by about a year's Practical Training | C.G.I.<br>G.U. | M.I.T<br>CU | |
| (b) Industrial and Administrative Engineering | 1 | | M.C.T. | M.I.T.<br>CU | |
| B. Electrical Engineering | 3 | | | | |
| (a) Generation, transmission and utilisation of electric power | 2 | " | Q.M.C.<br>C.G.I. | M.I.T<br>C.U.<br>U.C. | |
| (b) Electrical measurements | 1 | " | K.C.<br>G.U. | M.I.T.<br>C.U.<br>U.C. | |
| C. Civil Engineering: | 3 | | | | |
| (a) Structural Engineering | 1 | " | C.G.I<br>E.U.<br>L.U. | M.I.T<br>C.U.<br>M.I.T.<br>C.U<br>Harvad University | |
| (b) Highway Engineering | 1 | " | | | |
| (c) Public Health Engineering | 1 | " | | | |
| E. Aeronautical Engineering: | 1 | | | | |
| (a) Aerodynamics, Aircraft navigation and Aircraft instruments | 1 | " | C.G.I | M.I.T.<br>C.I.T | |

(For abbreviations see overlea

## Meaning of Abbreviations

CGI -- City and Guilds Institute

C.I.T. - Californian Institute of Technology

CU - Cornell University

GU - Glasgow University

EU - Edinburgh University

KC - King's College, London

LU - London University

M.C.T - Manchester College of Technology

M.I.T. - Massachusetts Institute of Technology

OC. - Owen's College, Manchester

Q.M.C. - Queen Mary's College, London

U.C. - Union College, Schenectady.

N.B. Besides the above institutions the following institutions are also suggested :

1. Carnagie Institute of Technology
2. University of Machigan Arbor, Michigan
3. Stanford University, California
4. Illinois Institute of Technology, Chicago
5. Columbia University, New York.

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Private Candidates proposed to be sponsored by the Govt. of Madras

| Subject and Exact Branch of subject. | No. of Scholarships | Nature and duration of training. | Institution or/and Country where it is desired that training shall be arranged. | Remarks. |
|---|---|---|---|---|
| A. Mechanical Engineering | 30 | | | |
| (a) Design and manufacture of Centrifugal pumps, deep well, borewell and tube well pumps and air lift pumps | 1 | Theory supplemented by practical (Engg.) 2 years | Manchester College of Technology | Practical (Engg.) at any of the manufacturers - say M/s Mather & Plats, Manchester. |
| (b) Design and manufacture of machine tools | 1 | University Course followed by practical training: 2 years | Any English University | Practical training at M/s Alfred Herbert & Co. or any other manufacturers of machine tools. |
| (c) Manufacture, installation and testing of boilers | 1 | (Prac. Engg.) Supplemented by theory: 2 years | Practical at Sterling Boiler Company's Works with part time classes at the local college | ---- |
| (d) Manufacture of Agricultural implements | 1 | D.Sc., or similar degree with ample practical experience -2 years | (1) Cambridge Institute of Agricultural Research, U.K.<br>(2) Messrs Ransomes Simons and Jeffries, Ipswich, England<br>(3) Messrs. John Deers Moline United States of America | Besides visit to Rothamstead and other factories in the U.K<br>Besides visits to other factories in the U.S.A. |
| B. Electrical Engineering | | | | |
| (a) Manufacture of Electrical lamps and accessories | 1 | Practical (Engg.) with part-time classes - 2 years | At G.E.C.'s works or Westinghouse works M/s. Woodhouse & Rawson or at other Electric lamp works. | |
| (b) Manufacture of electric fans, small motors and starters | 1 | Theoretical followed by practical training - 2 years | London University followed by work training at Crompton and Engineering Co., Chelmsford. | |
| (c) Manufacture of batteries and dry cells | 1 | Practical course supplemented by part-time theoretical course: 2 years | At G.E.C.'s Works | |
| (d) Design and manufacture of Radio sets | 1 | Theory followed by works training - 3 years | R.C.A. Works, U.S.A. or G.E.C. Works, England | |
| D. Chemical Engineering | | | | |
| (a) Wood and Lignite distillation and Utilisation of products | 1 | University course followed by practical (Engg.) - 3 years | Any of U.S.A.Universities where this subject forms part of the curriculum followed by practical training at a factory | |
| (b) Manufacture of films | 1 | Practical (Engg.) supplemented by part-time courses - 2 years | Illford Works or Kodak Works | |
| (c) Manufacture of paints | 1 | Practical course supplemented by part-time courses - 2 years | Any of the British Paint Works | |
| (d) Electro Chemistry with special reference to acids | 1 | University course followed by practical training - 3 years | do-- or American Universities | |
| E. Aeronautical Engineer<br>Ground Engineering | 1 | University course followed by practical (Engg.) - 3 years | At one of the British Universities | |
| F. Marine Engineering<br>Marine Engineering and design of ships, power boats | 1 | Theoretical followed by practical (Engg.) - 3 years | At Glasgow University followed by practical training at Ship building yards. | |
| H. Applied Chemistry<br>Chemistry of insecti- | 1 | Theoretical followed by | Ealing U.K. or Royal College of Science, London | |

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Form A

Private Candidates proposed to be sponsored by the Govt. of Madras.

| Subject. and Exact Branch of subject. (1) | ~~Exact branch of subject~~ (2) | No. of Scholarships | Nature and duration of training. | Institution or/ and country where it is desired that training should be arranged. | Remarks |
|---|---|---|---|---|---|
| I. Applied Physics | | | | | |
| (a) Fuel technology and design of furnaces and kilns. | | 1 | University Course supplemented by practical training: 2 years | Any British or American University, where Fuel Technology forms a distinct unit of instruction. | |
| (b) Sound technology, accoustics and recording | | 1 | University Course followed by practical training: 2 years | Northern Polytechnic London | Practical Training at His Master's Voice works |
| (c) Soil Physics | | 1 | University Course: 2 years | Agricultural Experimental Station, Rothamstead, Harpenden, or Any British or American University | |
| K. Mettalurgy | | | | | |
| (a) Manufacture of alloy steels | | 1 | Practical Course supplemented by part-time courses: 2 years | At Sheffield University followed by practical training at local steel furnace works. | |
| (b) Manufacture of springs and heat treatment of metals | | 1 | Practical Course supplemented by part-time courses: 2 years | At Sheffield University followed by practical training at any of the Factories engaged in the manufacture of springs. | |
| L. Other forms of Applied Science | | | | | |
| (a) Manufacture of Micanite | | 1 | Practical Course supplemented by part-time classes; 2 years | Practical training at any of the Mica processing factories in England. | |
| M. Technical subjects | | | | | |
| (a) Ceramics and manufacture of Ceramic ware | | 1 | University course followed by factory training: 2 years | Any of the British Universities (1) Wengers Ltd. Etreevia Stoke on Trent (2) Doultry Ltd., Stoke on Trent. (3) Mellors Ceramic Laboratories Stoke on Trent, England. | |
| (b) Factory management | | 1 | Theoretical course followed by practical training: 2 years | Syrocuze University, U.S.A | |
| (c) Light Metal Spinning | | 1 | Practical Course supplemented by part-time classes 2 years | At any of the British or American Metal Spinning factories | |
| (d) Lithography and printing Technology | | 1 | Practical Course supplemented by part-time classes 3 years | At any of the American Universities followed by practical training at Printing Works | |
| (e) Canning and Food Preservation | | 1 | Practical Course coupled with part-time theoretical training 2 years | The Fruit Products Research Labotatory under Prof. D.V. Cruesus, California University, U.S.A | Training in most cent res if of special kinds and to be |
| | | | | and at the National Assn. at Washington, U.S.A | necessary to work for |

16c

Form A

Private Candidates proposed to be sponsored by the Govt. of Madras.

| Subject and Exact Branch of subject. (1) | No. of Scholarships. (2) | Nature and duration of training. (3) | Institution or/and Country where it is desired that training should be arranged. (4) | Remarks. (5) |
|---|---|---|---|---|
| B. Electrical Engineering<br>Works Training | 2 | *~~If~~ (Three) years training in manufacturing of electrical machinery of all kinds and in associated research work in one of the works mentioned in column (4)<br>~~If~~ the Govt. of India insist on a post graduate course being taken, the diploma in the Imperial College of Technology Course in the Imperial College of Technology, London for one year, followed by two years of practical training in one of the manufacturing firms mentioned in column (4) | 1. English Electric Co., ) England<br>or<br>2. Metropolitan Vickers Co., or )<br>3. B.T.H. Co., or )<br>4. International General Electric Company, U.S.A | For one candidate arrangements have already been made with Messrs English Electric Co. item (1) in Column (4) Arrangements for the other have to be made with one of the three other firms named in column (4) |
| C. Civil Engineering (Irrigation Branch) | | | | |
| (a) Hydrology in relation to tube and bore-wells | 1 | Sinking of tube and bore-wells and problems connected with preparation, design, construction and maintenance of such installations: (2 years) | Not specifically mentioned in the curricula of Universities. The Agent-General to the Govt. of India at Washington, U.S.A., may be requested to recommend a suitable training centre.<br>1. California Institute of Technology, Pacadena.<br>2. Carnegie Institute of Technology, Pittsburgh | |
| (b) Dam Construction | 1 | Design and construction of high dams: (2 years) | 1. Carnegie Institute of Technology, Pittsburgh<br>2. Columbia University (City of New York) | |
| (c) Soil Mechanics of the earthern and Composite dams. | 1 | Soil Mechanics including laboratory research on foundations for earth dams: (2 years) | | |
| ~~C. Civil Engineering~~ | | | | |
| (d) Sanitary Engineering | 1 | Training in investigation, design, execution and maintenance of water supply and drainage schemes, for 2 or 3 years. | 1. Manchester University; or<br>2. London University; or<br>3. Glasgow -do- | |
| (e) Reinforced concrete and prestressed structures | 1 | Training in designs and calculation, for 2 years. | 1. London University; or<br>2. R.I.S., or<br>3. Glasgow University | |
| (f) Soil mechanics with special reference to foundations | 1 | Training in<br>(1) Soil analysis<br>(2) Soil physics and<br>(3) Soil stabilisation, etc.<br>) for 2 years. | -do- | |
| *(g) Public Health and Medical Buildings (and Architecture) | 1 | Special training for 5 years qualifying for A.R.I.B.A. (But this training can be reduced according to the qualifications and previous experience of the candidate to be sent). A candidate who has the G.D.Arch., will get an exemption of 3 years and can take the R.I.B.A. with further 2 years. | 1. University College, London Bartlott School of Architecture; or<br>2. Architectural Association's School London, or<br>3. Liverpool School of Architecture, Liverpool | |

Note:- * If a Government diploma holder in architecture is sent, he should supplement

Private candidates proposed to be sponsored by the Govt. of Madras

| Subject and Exact Branch of subject. | No. of Scholarships. | Nature and duration of training. | Institution or/and Country where it is desired that training should be arranged. | Remarks. |
|---|---|---|---|---|
| Civil Engineering | 2 | | | |
| Highway Research (A) | 1 | (a) Research organisation, setting up of Research Stations, Test tracks, Testing of road materials etc. 2 years ~~(2 years)~~ | 1. London University<br>2. Massachusets Institute of Technology.<br>3. Cornell University | Low cost roads it is presumed will include roads of stabilised earth Bridges should be a special study |
| Mechanical Engineering | | (b) Soil mechanics and soil research | | |
| Plant and Plant Operation | 1 | 2 years Use, organisation and maintenance of road plant and machinery, equipment of maintenance and field workshops etc. ~~(2 years)~~ | -do- | |

Form A : Total : 32

Madras Government Servants proposed to be deputed by the Education Dept.

| Subject and Exact branch of subject. | No. of officers. | Nature and duration of training. | Institution or/and country where it is desired that training should be arranged. | Remarks. |
|---|---|---|---|---|
| C. Civil Engineering: | 10 | | | |
| (f) Geodesy | 1 | Ordinarily 2 years Post-graduate study and research with visits to works, factories etc. and practical training during vacation followed by about a year's practical training | U.K. U.S.A. C.I.T. Chicago University | |
| L. Electrical Communications Engineering: | | | | |
| (a) Radio Communication | 1 | do. | M.C.T. C.G.I. M.I.T. C.I.T. C.U. U.C. | |
| N. Education: | | | U.K.: | |
| Pure Mathematics | 1 | Two years Postgraduate study and research | Cambridge, Oxford, London, Edinburgh | |
| History and Politics | 1 | " | ~~Edinburgh~~ Oxford, London Cambridge, Edinburgh | |
| Botany | 1 | " | Cambridge, Edinburgh, London, Oxford | |
| Zoology | 1 | " | Cambridge, London, Edinburgh, Oxford | |
| Engineering Mathematics | 1 | " | Any English or American University | Candidates may be placed in any institution that offers a course of the requisite standard in the subject concerned if places cannot be found for them in the institutions mentioned. |
| Engineering Physics | 1 | " | do | |
| Engineering Chemistry | 1 | " | do | |
| Engineering Geology | 1 | " | do | |

(For abbreviations see overle

## Abbreviations

CGI - City and Guilds Institute

C.I.T. - Californian Institute of Technology

CU - Cornell University

GU - Glasgow University

EU - Edinburgh University

KC - King's College, London

LU - London University

M.C.T. - Manchester College of Technology

M.I.T. - Massachusetts Institute of Technology

OC - Owen's College, Manchester

Q.M.C. - Queen Mary's College, London

U.C. - Union College, Schenectady

N.B.- Besides the above institutions the following institutions are also suggested :

1. Carnagie Institute of Technology
2. University of Michigan Arbor, Michigan
3. Stanford University, California
4. Illinois Institute of Technology, Chicago
5. Columbia University, New York

Form A

GOVERNMENT SERVANTS ~~FORM A~~ proposed to be deputed by the Development Dept, Madras Govt

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| 1. | 2. | 3. | 4. | 5. | 6. |
|---|---|---|---|---|---|
| Industries. | 1. Food Technology. | ~~22~~ 1 | Theory followed by practical training two years. | Stanford University California U.S.A. | |
| | 2. Sericulture | 2 | Theory supplemented by practical 2 years. | Japan and China. | |
| | 3. Technical training in Teaching methods in Technical colleges. | 1 | Theory. 2 years. | Northern Polytechnics, London, or any other University where this subject forms a part-time curriculum. | |
| | 4. Training in electronics. | 1 | Theory followed by practical 3 years. | ~~Northern Polytechnic, London,~~ do | |
| | 5. Manufacture of Boring tools. | 1 | Practical course supplemented by part-time classes: 2 years. | U.S.A: Bucyrus Well Drill Manufacturing Co. | |
| | 6. Paper Technology | 1 | Theory followed by practical hg. | 1. College of Technology, Manchester, U.K.<br>2. College of Technology, University of Massachusetts, U.S.A. | ① Practical training at Wiggin Teape Alex Pericks & Coltd., ~~(2)~~ Stoneywood, Aberdeen U.K. (2) Mead pulp & Paper Co., Origaon, U.S.A. |
| Veterinary | 1. Artificial insemination | 1 | Post graduate course, 2 years | i. Institute of Animal Genetics, Edinburgh University (U.K.)<br>ii. School of Agriculture, Cambridge (U.K.) | |
| | 2. Dairying | 1 | ~~Dairying~~ do. | i. National Institute for Research in Dairying, University of Reading, U.K.<br>ii. Hannah Dairy Research Instt., Kirkhill, Ayr., U.K. | |
| | 3. Sheep Husbandry | 1. | do. | i. Messey Agricultural College, Palmerson, South New Zealand.<br>ii. The C.S.I.R.O. Master Animal Health Laboratory, Sydney University, Australia. | |
| | 4. Physiology(General) | 1. | do. | i. Animal Nutrition Research Institute, Cambridge University, U.K.<br>ii. School of Agriculture, Cambridge, U.K.<br>iii. Rowett Research Institute, Buckburn, Aberdeen (U.K.) | |
| | 5. Protozoology | 1 | do. | i. The Welcome Research Institute, 183, Euston Road, London, U.K.<br>ii. National Institute of Medical Research, Hampstead, N.W.D., London, U.K.<br>iii. Liverpool School of Tropical Medicine, Liverpool, U.K. | |
| | 6. Veterinary Entomology | 1 | do. | i. Royal College of Science, London U.K.<br>ii. Entomology Dept. Cambridge University, U.K.<br>iii. Institute of Agricultural Parasitology (London School of Hygiene and Tropical Medicine) U.K. | |
| Co-operation. | (a) Rural and urban credit.<br>(b) Agricultural (Non-credit) co-operation including methods of supply of agricultural requisites, organisation of subsidiary or rural industries, and co-operative farming.<br>(c) Cottage or small ~~manufacturing~~ scale Industries cooperatives.<br>(d) Consumer's movement both rural and urban. | 2 | The candidates are not expected to join any institution or undergo a particular course of training in any institution. They are to go round co-operative institutions, study their methods of working and note points of interests so that on their return they might examine how far the methods | Italy, Germany, Denmark, Belgium, France, England, Scotland and Ireland. | |

| | | | | |
|---|---|---|---|---|
| 2. Agronomy: Soil conservation | 1 | D.Sc. or similar degree with ample practical experience. | i. Texas University, U.S.A.<br>ii. British Columbia University, Canada.<br>iii. Montreal University Canada. | |
| 3. Fruit Technology | 1 | " | i. The Fruit Products Research Laboratory under Prof.D.V. Cruesus, California University, U.S.A.<br>ii. Individual workers at Delaware, Illinois, and at the National Canners' Association at Washington, U.S.A.<br>iii. The Campden Fruit and Vegetable Preservation Research Station, University of Bristol, U.K. | Training in most centres is of special kinds, and to be complete, it is necessary to work for short periods in a few centres other than the place where the main part of the training is taken<br>Practical training in the Factories and in the Industry also will be helpful. |
| 4. Virus Pathology | 1 | " | i. University of Wisconsin, Madison, U.S.A.<br>ii. School of Agriculture, Cambridge, U.K.<br>iii. Rothamstead Experiment Station, Harpenden Hert, U.K. | |
| 5. Agricultural Economy | 1 | " | i. Oxford, Cambridge, Durham, Leeds, Reading, Wales, & Edinburgh Universities in the U.K.<br>ii. Belfast and Montreal Universities in Canada.<br>iii. Kansas, North Carolina, Virginia, Minnesota, Iowa Universities in the U.S.A. | |
| 6. Agronomy General | 1 | " | Virginia, Iowa, Texas Universities in the United States of America. | |
| 7. Soil Bacteriology | 1 | " | i. Rutgers University, New Brunsick, New Jersy, U.S.A.<br>ii. University of Wisconsin, Madison, Wisconsin, U.S.A.<br>iii. University of Illinois, Illinois, United States of America.<br>iv. Cornell University, Ithaca, U.S.A. | |

...oOo...-

Copy of letter No.9772-H, 7/45 dated 5th March, 1946, From Rao Bahadur Sri N.M.Adyanaya B.Sc., (Edin), Joint Director of Industries and Commerce, Post Box 432, Madras, To The Additional Secretary to Government, Development Department, Madras.

Sub:- Education - Fisheries - Technical Training abroad - 1946-47 - Deputation of Government Servants.

Ref:- Government Memo No.5886-D/46-1 dated 11-2-46.

I enclose a revised statement prepared in the form prescribed in the letter of the Government of India dated 22-1-46.

I would suggest that Dr.Baini Prashad, Fishery Development Adviser to the Government of India who has recently returned to India may advise best on suitable stations.

proposed to be deputed by the Dev. Dept. of the Govt. of Madras.

GOVERNMENT SERVANTS -- ~~Form A~~

| Subject | Exact branch of subject. | Number of scholarships. | Nature and duration of training. | Institution or/and country where it is desired that training should be arranged. |
|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) |
| Fishery Technology. | Marketing of fish and fish products | 1 | Mainly practical training 1 year. | Berkeley. 1. University of California 2. University of Missouri, Columbia. 3. Stanford University, California. |
| -do- | Deep sea fishing Craft & Tackle | 1 | - do - 1 year. | 1. Scripps Institution of Oceanography at Lajolla, California. 2. Webb Institute of Naval Architecture, New York, North Carolina. 3. Hull. |
| -do - | Fish Liver Oil | 1 | -do- 1 year 6 months | 1. College of Fisheries University of Washington Seattle, Washington, U.S. 2. Distillation Products (Inc) Rochester, New York. 3. Parke Davis & Co., Dotroit-Mict-U.S.A., |
| | Refrigeration | 1 | -do- 1 year 6 Mon. | U.K. 1. Tory Research Station Aberdeen. 2. Low Temperature Station Cambridge. 3. British Cod Liver Oil Products Hull. |
| -do- | Fresh Water Marine Biology | 1 | -do- 1 year & 6 months. | Fresh Water Biology. |

P.T.O

Fresh Water Biology.

1. West More Land, Ambleside Fresh Water Biological Station.
2. The Alakama State Agriculture Expansion Station (Pisiculture)
3. Liverpool University.

Marine Biology

1. Plymouth Marine Biological Station
2. Liverpool University
3. Naples Biological Station.

GOVERNMENT OF MADRAS.
Development Department.

Endorsement No.16768 D/46-1 dated 9th March, 1946.

Copy forwarded to Educational and Public Health Department in continuation of Development U.O.Note No.3836 D/46 -3 dated 1-3-46. Educational Public Health may be requested to inform the Government of India of the suggestion made by the Director of Industries and Commerce for consulting Dr.Baini Prashad in the selection of suitable stations for training.

D.J.C. Crawley.
Under Secretary to Government.

To the Educational and Public Health.

Forwarded/By Order.

Superintendent 11.3.46

s.s.11.3

MOST IMMEDIATE

No. F.2-2/46-G.D.II
GOVERNMENT OF INDIA,
DEPARTMENT OF EDUCATION.,
New Delhi, the 8th March, 1946

ASST. SECRETARY TO GOVERNMENT EDUCATION AND PUBLIC HEALTH DEPT. 18 MAR 1946 14359

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

To :- The Secretary to the Govt. of Madras, Education and Public Health Department, Madras.

14359

Subject:- Scholarships for Advanced Studies Overseas, 1946-47 - Provincial Schemes.

Reference:- Correspondence resting with your letter No. dated

Sir,

I am directed to refer to this Department letter of even number dated 22nd January 1946 and to request you to expedite your reply to para 2 thereof so as to reach this Department in any case not later than the 17th March 1946.

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

A.M.D'Rozario.

(A.M. D'ROZARIO)
for Secretary to the Government of India.

E.P.H (C2)

The reply refd. to in the letter has already been sent. May be added to the main file.

TMS 13/3

13/3/46

Edn. and P.H. Dept.(A)

LETTER/Ref. No.48946C2/45-25 dated 13.3.46.

To

The Secy. to the G. of I., Dept. of Edn., New Delhi.

Sir,

Tech. Edn. - ~~Scholarships for~~ Advanced studies overseas - Govt. servants to be deputed - Form A return.

---

In continuation of my letter No.48946-C2/45-23-Edn. dated 11-3-46, I am directed to forward the appended statement in Form A in respect of 5 more Govt. servants of this Province who are proposed to be deputed or sent on study leae terms for studies in subjects under "Fisheries". The no. of Govt. servants which it was stated in para 2 of my letter as having been reduced to 32 will accordingly stand modified as 37.

Incidentally, I am to mention that the D.I.C., Madras, has sugested that Dr. Baini Prashad, Fishery Devt.

It is for consideration whether the D.P.I. and the other heads of departments may be consulted with reference to the Government of India's letter on the lines indicated above in regard to their requirements. In consulting the D.P.I., he may be asked to take into account the inclusion of Edn.- also as a new subject for this year.

2. Government Servants: As the Government of India have called for the estimate with a view to arranging for the admission of the required number in the various Universities, it should also include the number of Government servants proposed to be selected by this Government for higher studies. So far as Education Department is concerned, the requirements for this year was estimated at 5 (excluding one for administrative training) out of which 4 have already been selected. The question of selecting a fifth is still under correspondence. The D.P.I., may, however, be asked whether any officers should be sent next year also.

The other departments concerned may take necessary action separately in regard to selection of Government Servants and intimate to this department the figures for purposes of the estimate to be sent to Government of India.

The file may be sent to Development, P.W.D., and L.A., for remarks (with reference to A above) ~~Medical and P.H.~~ (with reference to B & C above) may also see.

31/10/45 A S I DS

It is not clear whether the reference at page 1 of the ~~S~~ has anything to do with 'Medical' studies. The communication is from the Dept. of Education not Health Dept. and so it is presumed that Medical Education is not referred to. For orders whether this may be ascertained by telegram.

31/10/45 S

31/10/45 S

A draft telegram to the Government of India is submitted on page 2 c.f. A draft memorandum to the D.P.I. is also



submitted. After issue of the telegram, the file may be sent to Finance, copies of the Government of India's letter and the notes being sent at the same time to L.A., P.W.D., and Development. The draft memorandum to the D.P.I. may issue after the file is seen by Finance and after circulation.

1/11/45 A S I S

1/11/45

(after issue of telegram & d.o. wts.)

Copies of c.f. & n.f. to be sent to L.A., P.W.D. & Edn.; before the file is sent to Finance

Copies sent

1/11

D.O.No.48946C-2 1.11.45

A.45pm.

SECRETARY TO GOVERNMENT 1 NOV 1945 FINANCE DEPARTMENT

50088 Ed.

2/11

This no.

50088 Ed.D

2-11-45

49843

SECTY. EDN. AND P.H. DEPT. 2 - NOV 1945 GOVERNMENT OF INDIA

The case may be returned to Edn. after issual of Exhibit notes above and the draft memo. Pending receipt of detailed proposals as to the exact number to be deputed for higher studies abroad and the cost estimated cost involved, no remarks seem called for in this dept. at this stage.

2.11.45

for orders as to circulation.

2/11/45 S

(Issued as Memo. No.48946-C-3-Edn., dated 2-11-45.)
C.No.52056-C. From the D.P.I., Rc.No.4368-C/45-2, dated 14-11-45

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The D.P.I. suggests that the following additions and alteration may be made in the list of subjects in Group I in the Statement at (a).--

Additions:

(1) Public Health Engineering - under Civil Engg.
(2) Geodesy - under Civil Engineering.
(3) Electrical Measurements - under Elec. Engg.

Alteration:

Alteration of 'Aircraft Navigation and Aircraft Instruments' into 'Aero-dynamics, Aircraft Navigation and Aircraft Instruments' - under Aeronautical Engg.

The additions and alteration may be accepted. M.V.S.

2. It has been decided separately that a private candidate for 'Heat and Hydraulic Engg.' may be included in the requirements for next year. Thus, the total requirements under this group including the 12 still required under the last year's estimate are 16. The Director has recommended the deputation of two officers in the Engg. College for two of the subjects - viz., 'Geodesy' and 'Radio Communications'. For orders whether the number of private candidates may be provisionally fixed at 14 and Govt. servants two. If no qualified private candidate becomes available for any of the subjects, the Principal's suggestion at "A" on p.14 C.F. to depute suitable Govt. servants may be considered.

) This may be done.
) M.V.S.

This may be considered later, if necessary.
M.V.S.

3. As regards subjects under 'Education', the Director has proposed as many as 20 subjects and he recommends the selection of 32 suitable persons (both private and Govt. servants) for these subjects. The Director has apparently made this recommendation mainly with refce. to the requirements of the Presidency Coll. and the Teachers' College, Saidapet. With refce. to a communication received from the V.C. of the Madras University re: the staff of the Presidency and other Govt. colleges, the Director has stated as follows:-

"The posts of Professors in the following subjects are already vacant and candidates with war service are about to be recruited:

1. English.
2. Chemistry.
3. History.
4. Sanskrit.

"Within the next few years Professorships in the following subjects will fall vacant:

| | | | |
|---|---|---|---|
| Pure Mathematics | 1948 | Chemistry .. | 1950 |
| History and Politics | " | English .. | 1951 |
| Botany .. | 1947 | Zoology .. | 1952 |
| Zoology .. | " | Geology .. | 1953 |
| Applied Mathematics | 1950 | Economics .. | 1954 |

"It is essential that some of the young and promising members of the Department should be deputed overseas for higher studies and advanced training in research, with a view to qualifying themselves for the posts of Chief Professors in due course. With this end in view, I have already recommended in connection with the "Overseas Scholarship Schemes" the deputation of about 38 candidates for higher studies in other countries - ** "



The Vice-Chancellor had also written to Government about the staffing of the Teachers' College, Saidapet. In that connection, the Director has stated that "a suitable officer may be deputed to study modern trends in teaching with a view to his ultimate appointment as Principal, Teachers' College, Saidapet.

Teachers' College: 'Education' is not one of the subjects in the list on p.10 C.F. Perhaps the D.P.I.'s intention is that the question of deputing an officer for appointment as Principal should be considered independently of the Government of India scheme.

Presidency College. From the extract of the Director's letter above, it will be seen that the immediate requirements are Professors for the following subjects:-

Pure Mathematics
History & Politics
Botany
Zoology

The four subjects may be included in the next year's requirements.

With reference to the last para of the Director's letter at p.11 C.F., the following subjects may also be included:-

Engineering Mathematics
Engineering Physics
Engineering Chemistry
Engineering Geology

The Director has not specified the subjects for which private candidates should be selected and those for which Govt. servants should be selected and granted study leave. For orders whether this may be settled after information is recd. from the G. of I. re: the exact number of scholarships that will be allotted to this Province. Meanwhile, all the subjects referred to above may be included in this Govt.'s requirements and the G. of I. informed that Govt. servants will be selected for those subjects for which there are suitable candidates among them and private candidates will be selected for the others.

This may be done

finance may see before circn.

Offg
24/11/45 S

'A' a. b: 3 arts: - 9
do w. time & is hearing
& decides to include vernacular Exs from
the D.P.I's list as the 10th number which is f.y.i.
are prepared to agree to limiting of the No of
the emphasis has to be more on the technical
& 'science' subjects & we already have an
have 16 under this group (have 2 a. b: 4 arts)

by
26/11/45.

Fin. Ltr. No. 48946C-6
26.11.45
11.40 AM

Finance (Ex I)

Previous Fin. notes on page 3 above and the notes of Exs. II following may be perused. Pending receipt of information which Exs. II propose to call from the Govt of India regarding the exact number of scholarships that will be allotted to this Province by India for Lib. 47 and the estimate of cost involved no remarks are called for at this stage in this dept.

D.S. 11.45

Fin. No. 4116 Ex-1
26/11/45

by
26.11.45

Dept.
e

D.S
RPH

535 Fin.
26.11.45

Advt.
26.11.45.

DR
26.11.45.

The proposals are -

(1) that the alterations and additions suggested by the D.P.I. to the subjects under Group I in the list at (a) (para 1, pp.3-4 ante) may be accepted;

(2) that provisionally 14 private students and two Govt. servants may be selected for the subjects under Group I with the additions and alterations;

(3) that the following subjects may be



90

included under the new head "Education"--

| | | | |
|---|---|---|---|
| (1) | Pure Mathematics | (5) | Engg. Mathematics |
| (2) | History and Politics | (6) | " Physics |
| (3) | Botany | (7) | " Chemistry |
| (4) | Zoology | (8) | " Geology; |

and (4) that the no. of private candidates and Govt. servants to be selected for the subjects in (3) above may be settled after definite information is recd. from the Govt. of India re: the exact no. of scholarships to be allotted to this Govt. and that, in the meanwhile, that Government may be informed that Govt. servants will be selected for those subjects for which there are suitable candidates among them and suitable private candidates will be selected for the others.

Offg
26/11/45 S

(A2 last para a. b: 3 arts. Notes above)

by
26/11/45. A2.

Approved
26/11/45

Secd.
f.y.i. wanl.
by 30/11/45.
by
26/11/45.

26/11

SECRETARY, L.A. AND P.H. DEPT.
23 NOV 1945
GOVERNMENT OF MADRAS

pp 19-22 cf

C.No.54072.C. From the Government of India, No.D.2610(c)45 dated 23rd November 1945.

...

Please see the letter from the Government of India since received on pp.19-22 c.f. The immediate action required is to inform the Government of India of the number of scholarships required by this Government and also to send returns in Form A in respect of the candidates both private and Govt. servants. The requirements of L.A. and Development have been received; those of P.W.D. have not been received. The number of private candidates and Government servants proposed are as below.

para 7, proof
linked files.
* Since received & added.

similar
28320 H2A
LF I
pp 23-26 CF
p13 NF
LF II
54277
similar above

| | | Private candidates. | | Government servants. | |
|---|---|---|---|---|---|
| (1) | Education | 14 | 77 | 10 | 42 |
| (2) | L.A. | 3 | | 26 | |
| (3) | Development | 46 | | 6 | |
| (4) | P.W.D. | 14 | | | |

In the figures against item (1) the candidates required under the new head 'Education' have not been included under para 5 vide page 5

Sgvt's letter refer. 4 pages + 2 enclo.

ante. A draft telegram and a draft letter to the Govt. of India are submitted. A draft Memo. to the D.P.I. and a draft U.O. note to Departments of the Sectt. are also subd. After issue the points raised in the Government of India's letter will be examined and submitted urgently.

30/11/45 S

[Telegram d. 30-11-45.
Letter No. 48946 C/45-7 Edn. d. 30-11-45
Memo No. 48946 C/45-8 Edn d. 30-11-45
U.O Note No. 48946 C/45-9 Endd. 30-11-45]

From the Govt. of India, Dept. of Edn., telegram No.F-10/6/45/EIV, dated 11-12-1945.

---

Please see the telegram received from the Govt. of India, on p.67 C.F. They have allotted a total no. of only 50 private candidates for this Province. The point that arises is how this 50 should be distributed among the different departments. Attention is invited to the note at p.37 N.F. of G.O.1462-Edn., dated 16-9-45, for the basis on which the distribution of candidates as among the different depts. was made last time.

The demands of each Dept. for 1946-47 are as shown below:-

| | | | |
|---|---|---|---|
| Education | .. | 14 | |
| Development | .. | 46 | 77 |
| P.W.D. | .. | 14 | |
| L.A. | .. | 3 | |

As the total no. is now restricted to 50, the following distribution which follows the principle adopted last year is suggested:-

| | | | |
|---|---|---|---|
| Education | .. | 9 | |
| Development | .. | 30 | |
| P.W.D. | .. | 9 | 50 |
| L.A. | .. | 2 | |

If the suggestion is approved, so far as the no. for Edn. is concerned, the D.P.I. may be consulted as to the subjects for which the 9 candidates should be alloted, with refce. to the relative importance of the subjects. Similarly, Dev. and P.W.D. may consult their Hds. of Depts. and report to this Dept. the subjects for which their candidates should be

This may be approved. 14/12

[after orders are taken in circulation, enclosures will be sent to Depts. for consulting their respective Heads of Depts.]



selected. Only after these particulars are settled, an advtt. can be put out and the machinery for the selection of candidates set up.

DEV. and P.W.D. may see before circulation. L.A. may also see. The Depts. may be requested to treat the case as special.

The G. of I. have already been furnished with a list of subjects for which this Govt. wish to have their candidates deputed. Returns in "A" forms may be sent to the G. of I. after details re the allotment of the new no. of 50 between the various subjects are settled.

Edn U.O 48946 C/45-14
14-12-45

UNDER SECRETARY
14 DEC 1945
DEVELOPMENT DEPARTMENT

D/45

18/12/45 S

14/12/45

Dev. Dept.

To U.S.

E&H. notes from middle of p. 8 ante may be passed. The telegram applies only to Sponsored private Candidates. So far as this dept is concerned, the previous proposal to select 46 candidates for training in 39 subjects during 1946-47 will have to be revised to limit the number of Candidates to 30. This may be agreed to. On receipt of extracts, after orders in circulation in this case, action will be taken in this dept to reexamine the particulars of Subjects to be finally chosen to limit the selection to 30 Candidates. For orders.

The case may be passed on to P.W.D.

Sec'y 14/12/45

14/12/45

DEPUTY SECRETARY TO GOVERNMENT
14 DEC 1945
PUBLIC WORKS DEPARTMENT

Dev U.O. No. 18034-D/45-1
14/12/45

E&H note from the middle of p. 8 ante may be passed. The case passed on to L&LA. Attention is invited

Co,

H on p 8 ante and A on p 9 ante.

BGs 14.12.45 S.O. 14.12.41. Against a demand of 14 for the Mod E+PH propose to allot 9 private candidates for the Mod. This may be accepted & the file passed on to LA

14.12.45 S

PM 15.12.45 LA

L. A. dept

The E+P H dept note from the middle of page 8 ante may be perused. Against the original recommendation of this dept for the deputation of three private candidates for overseas training in 1946-47 in Highway Engineering, E+P H now propose to limit the number to two. This may be agreed to, in the circumstances stated pt C on p 8 ante.

PM 16-12-45 Secy E+P H

The Dev, P.W.D and L.A. have accepted the distribution of the 50 scholarships allotted to the Provinces proposed on page 8 ante. Finance may also may see before circulation.

PM 17/12/45 S

17/12/45

Fin.(C.I)

(Fin. Saw last on p. 6 above)

Notes from the middle of p. 8 above alone need be perused. Pending receipt

12932

Fin No. 32932-1 dt 17/12/45

Edn V.O 1289 dt 45-15 17-12-45

p 6 ante

5/46 A/48

58268

G.S.S. 5106 19/12.

Fin No. 58268 dt 18.12.45.

ASST. SECRETARY TO GOVERNMENT 18 DEC 1945 EDUCATION AND PUBLIC HEALTH DEPT.

51468

E 18/12

Secd. Machinery for the selection of candidates to be sent in matters at the earliest possible moment.

WS 18/12/45

Fin No. 58268 dt 18.12.45

ASST. SECRETARY TO GOVERNMENT 18 DEC 1945 EDUCATION AND PUBLIC HEALTH DEPT.

51468

E 18/12

Secd. Machinery for the selection of candidates to be sent in matters at the earliest possible moment.

WS 18/12/45

SECRETARIAT, MADRAS 18 DEC 1945 LOCAL ADMINISTRATION DEPT.

for detailed proposals from the Heads of Depts and the estimate of the cost involved, no remarks are called for in Fin. at this stage. This dept. may however suggest that in regard to the selection of subjects for studies abroad during 1946-7, the Heads of depts. may be asked to exclude the subjects for the study of which students have already been deputed during the current year.

SR 17.12.45.

WS 18.12.45

E+PH C.

[Notes from the middle of page 8 ante may be read]

The file may be circulated for orders on the distribution of the 50 scholarships allotted to this Province, as proposed at 'A' on p 8 ante

PM 18/12/45 S

[B above words wh. is feasible; when requirements are limited in certain numbers for certain subjects, & if those numbers have wh. been vacated last year, it would be necessary to send up the remaining number by year for the same subjects.]

WS 18.12.45

A2. A3. A1. HE

A p 8 ante may be approved.

PM 18/12/45

Secy SR 18/12/45

AH. 20/12/45

SECTARY, EDN. AND P. H. DEPT. 20 DEC 1945 GOVERNMENT OF MADRAS

NP 19-12-45

We may make the selection ourselves, & D.P.I. to be shown this note & preference

A draft Memo and a draft G.O. note are submitted.

As regards Govt servants to be selected by this dept, a separate file will be started after the subjects for which private candidates are to be chosen are finally settled.

JSM. 22/12/45 S. W. Hughes.

[Issued as V.O note No. 4894 b Edn-16 dated 22/12/45]

The number of scholarships allotted to this dept is nine, against the estimated requirement of 14 for ten subjects - one candidate each for six subjects and two each for four subjects. In the statement on page 51 of the D.P.I. has indicated the order of preference of the subjects for which candidates should be chosen. It is for orders whether the eight subjects - 1 to 7 & 9 on p51 CF - in the order of preference may be selected for the award of scholarships for 1946-47, two scholarships being given for the first subject.

No. 8 is same as No. 1.

This may be done. W.

2. If the proposal above is approved, the question whether of the Govt servants for the three subjects still left may be deputed, may be considered. In that case the total no. of Govt servants to be deputed will be 15, the subjects for which Govt servants may be deputed are it has already been decided that specified at 'B' on p42 CF.

Please see below. W.

3. Two of the subjects referred to in para 1 above (items 2+3 - p51 CF) are new additions and it is not necessary to ask the



VSC

I think it is better to consult D.P.I. about these new subjects above. W.

Director to send a note on the qualifications to be laid down for these as the qualifications for the subjects in Appendix I of the last advertisement will cover these subjects also.

Special vide note with manager on p 11 and J

24/12

For orders.

JSM. 24/12/45 S

'M' at p. 12 ante. Please see at 111 at pp. 14-15 of J for S at pp. 9-10 of J. The possibilities of 'deputation' have already been considered by Examiner. No further examination of the matter is necessary.

W. 24/12/45. (Note from p. 12 ante)

EDUCATION, INDUSTRIES AND P.W. DEPTT. 24 DEC 1945 GOVERNMENT OF MADRAS

24/12/45 A2

Issue draft Memo below

JSM. 24/12/45

Issued as Memo No. 4894 b Edn-17 dated 24.12.45. C.No 1009/45. From Dev. V.O Note No. 68/46(A) D (45-9 & 46-1) dated

Pl see the V.O Note & the lists appended to it from Dev on 91-96 CF. According to their estimate, the following are the new subjects which they propose to introduce this year.

(1) Manufacture of electric lamps and accessories
(2) Manufacture of electric fans, small motors and starters
(3) Chemistry of insecticides and fungicides
(4) Design & manufacture of centrifugal pumps etc
(5) Manufacture installation and testing of boilers
(6) Soil Physics.

They have specified the qualifications to be required of candidates in respect of the first 5 items only. They may now be requested to specify the qualification for the last item "Soil Physics." That dept may kindly return the file after taking necessary action.

UNDER SECRETARY TO GOVT. DEVELOPMENT DEPARTMENT 7 JAN 1946

Edn V.O 4894 b Edn-19 7-1-46

7-1-46

JSM. 7/1/46 Dev.

To Us 14 DEV

Please see E+P.H. notes on p1a above. Necessary extracts have been taken for separate action. The file may be returned E+P.H.

Dev. 1.46 1872 D/46-1
8146 87.46.

E&PH

E. & P.H. Deptt.
C.

1278

The D.P.I.'s reply to the Memo on page 77 current file has not been received. The Deputy Director of Public Instruction has telegraphed to Dr. Rudra at Coimbatore for the information. The Development Department have also to intimate the qualification required for 'Soil Physics' - vide bottom of page 13 ante and the note above.

2. Please see the P.W.D.'s u.o. note on page 101 C F. They have suggested scholarships for 'Soil Mechanics' both under 'Irrigation' and 'Building' branches. It seems desirable to indicate the subject more definitely than has been done.

3. Again under 'Irrigation' the Chief Engineer has suggested the grant of scholarships for three subjects and has stated that two private students may be given the choice of selecting any two of the subjects and that for the remaining subject a junior Supervisor may be selected. The P.W.D. enquires whether it will be possible to comply with the C.E.'s request and if not, whether all the three scholarships may be given to private candidates. If the procedure suggested by the Chief Engineer is accepted, one of the scholarships allotted to this Govt. may not be utilised. It seems that P.W.D may decide whether the scholarships are to be given for all the three subjects or only two of them. In the latter case, one more scholarships may be given for 'sanitary engineering' (only one has been proposed for this subject), as there are only very few persons qualified in the subject and the Government have a large programme of water supply and drainage schemes in the post-war period.

4. The Chief Engineer has suggested that one Executive Engineer

p 101 CF
× Tube Bore wells Dam. Cauchier Soil Mechanics

p 33 N F
Linked file

+ Perhaps Soil Mechanics may be omitted

We need not do this. Please see below 4

P.W.D. and one Municipal Engineer may be deputed for further study in Sanitary Engg. and one Executive Engineer, Public Health, to study 'stressed structures, construction of hospitals and health centres' - pages 65 c f and para 3, pp 29-30+31 c f. Extracts will be given to F 2 section for necessary action as deputation of Government officers are to be considered by the departments and the sections concerned.

5. The D.P.I. has not sent proposals regarding the deputation of officers of the Education department. The decision on page 13 ante was that only two officers need be sent for the subjects in appendix I, viz., Mr. A.R. Ramanathan and Major B.H. Marley of the Engg. College, for 'Radio communications' and 'Geodesy' respectively and that Govt. officers might be selected for the eight Education subjects mentioned in para 2, page 39 c f. The Director may be asked to send proposals urgently as the Govt. of India have to be informed about the final selection of Govt. officers by 31st March 1946. A draft Memo to the D.P.I. is submitted. The Memo will be removed from its file and ~~Extract on receipt of the Director's reply~~ a separate file will be started about Govt. officers.

6. After issue of the Memo the file may be sent to P.W.D with refce. to paragraphs 2 and 3 above. That Dept. may be requested to treat the case as special.

M

N

(a) para 5, pp 9-10 CF

BPM 14/1/46 S

'P' as p: 12 ante :-

Perhaps we in L.F. it is convenient to determine whether any of private Students' i.e. 'Junior Supervisor' will be eligible under this Scheme; also on what principles shall be taken as to the determination of the persons determine (leaving only two for the present determination) as to the determination of the private Students, reserving the proposal to depute a 'Junior Supervisor'; it is for P.W.D. to decide.

To/the P.W.D.

Endn U.O. 1679 UBC/45-20
15-1-46

PWD

Please see this dept's no. note (copy) on p101 cf & remarks of E+PH. on pp 14-15 ante. This dept is concerned with paras 2 and 3 of the note on p14 ante & Excepts E+PH Secy's remarks on p15 ante.

Para 2 of E+PH note on p14 ante:- Two scholarships have been suggested for 'Soil Mechanics' one under Irrigation branch & the other under Building branch. E+PH desire that the subjects should be indicated more definitely. It is submitted that in regard to one scholarship for 'Soil Mechanics' under Buildings Branch, the CE(cf) has in his letter no. 2907 E/45-13 dated 7.1.46 (copy at p102 cf) indicated that one candidate is for 'Soil Mechanics' with special reference to foundations. - vide 'A' on p102 cf. In regard to Irrigation Branch, the CE I wants a scholarship for "Soil Mechanics" of the earthen & composite dams. He has stated that his proposals are quite different and are in addition to the proposals of the CE(cf) - vide CE(I)'s letter no. 1307/45-A-50 dated 21-12-45 on p73 cf (linked file PWD e.no. 5505B/45). The subjects may therefore be indicated as follows:-

'X' on p73 cf in the C.F. PWD e.no 5505B/45 is linked by PWD

Irrigation Branch

'Soil Mechanics' of the earthen & composite dams.

'A' on p102 c/s

Buildings Branch

'Soil Mechanics' with special reference to foundations.

It is presumed that the subjects as classified above would meet the requirements of E+PH.

Para 3 of E+PH note on p14 ante & E+PH Secy's remarks on p15 ante:- Three scholarships may be allotted to private Students & the CE(I) may be informed of the correct position as stated in PWD Asstt Secy's note on pp 32-33 ntf (C.F.) and E+PH Secy's note on p15 ante.

→ copy added at l/p 35-36 N.F. in the C.F. is linked by PWD

× PWD e.no. 5505B/45

16.1.46

After orders are passed, extract of the above note will be taken & added to the linked file & further action taken. with the above remarks the file may be returned to E+PH.

⊗ extract taken.

5-1-46. 15.1.46

16.1.46 S

16.1.46

E+PH e. PWD e.no. 2728/46-1 16-1-46

'P' above. The subject has been indicated as above in Section III of the Appendix to the draft Advt. put up in the top file.

Paragraph 1 of the note on page 14 ante

The D.P.S. has reported that qualifications required for the two new subjects - P.H. Engg. and Electrical measurements - p105 cf. the draft Advt. already put up does not require alteration

25/1

2F



95

The Dev. deptt. has suggested the qualification required for 'Soil Physics' in the draft Advt.

orders are required in this file only about 'M' and 'N' on page 15 ante.

Noted by

18/1/46 S

p109 CF [Memo No. 48946C/45-121 d. 19-1-46]

Education & P.H.(C) Dept.

96

SCHOLARSHIPS - Advanced studies overseas - Sending of "A" Forms to Govt. of India.

...

In the letter on pp. 117 c.f. the Government of India have asked that information in the form on that page should be sent to them not later than Februrary 28th, 1946 about the number of scholarships which it is intended to award for different subjects. ~~In their letter dated 23-11-1945,~~ They have already emphasised that the courses of instruction which ~~that Govt.'s~~ their Edn. & Dept. Scheme is designed to provide are essentially educational, including, where necessary and possible, relevant practical training, that the scheme does not provide for persons who require a course of practical training only for the purpose of enlarging their industrial or professional experience and that such persons are provided for under the scheme of technical training which is dealt with by the Labour Department ~~of the Government of India.~~ In connection with the scholarships for 1945-6, the Government of India stated that it would be helpful if, while indicating the institutions, the Provincial Government suggested about three institutions in the order of preference, so that if seats were not available in the first one, attempts could be made without loss of time to secure a place in the next most suitable institution. The following are the ~~relevant~~ instructions ~~of~~ received from the G. of I. ~~contained in the letter of the 17th December 1945,~~ this time on the point :-

pp.21-22 C.F.

Separate file :
x after they made final selections out of the 108 candidates recommended by the Govt.

para 5, p.111 C.F.

> "The duration of the training will vary according to particular requirements, but the average duration of courses contemplated will be 2 years, as normally students will be selected only for post-graduate courses. The Central Govt. will endeavour to arrange training as far as possible in the countries and institutions indicated by the Provl. Govt. concerned but it is possible, particularly as it will probably be even more difficult to secure admissions in foreign Universities next year, that arrangements desired by the Provl. Govts. may not be possible. In that event, other suitable arrangements will be made, and owing to the time factor, it may not be possible to make a further reference to the Provincial Governments concerned at that stage. It is, therefore, suggested that the Provincial Government may, when forwarding the names of candidates recommended by them, indicate their views as fully as possible, so that at least such arrangements may be avoided as a Provl. Govt. may consider definitely unsuitable for a particular subject."

2. A statement in the form required in respect of the 50 scholarships allotted to this Province for students to be sponsored by this Government, compiled with the information al-

already supplied by the D.P.I. and the Dev., P.W., and L.A. Depts., is placed below.

The following remarks are called for on the statement with reference to paragraph 1 above:

(1) Education Department: The period of training has been indicated only in respect of ~~the~~ one subject. Three institutions in which training may be given have not been specified in the case of all the subjects.

(2) Development Department: Neither the period of training nor the institution in which training should be given have been specified. The Development Department has stated that the Heads of Depts. concerned do not appear to possess information regarding types of courses or names of institutions and that the Government of India may be addressed for selecting appropriate institutions either in the U.K., U.S.A., or other foreign countries. In the last year's "A" return the courses were put down as "post-graduate course" in the U.K. or U.S.A. or Canada. In the application form the candidates have been asked to specify three institutions in which they wish to undergo the course of studies. It is doubtful whether the candidates will be better informed than the Heads of Departments in the matter. Again, for a number of subjects 'nature of training' is put down as "practical" or "practical course". It is presumed that the course of training required will come within the scope of the scheme as noted in para 1 above.

(iii) P.W.D: B. Electrcial Engineering-Works Training: The institutions in which the theoretical training should be had has not been indicated. The information given last year for this subject is indicated in the remarks column on p. 7 of (H)

C. Civil Engineering: (a), (b), and (c): The nature and duration of training and the institutions have not been specified.

(d): one other institution and duration of course have to be specified.

(e), (f) and (g): Nature and duration of training has not been indicated. Only ~~one~~ institution has been specified for each subject.

(iv) L.A. Dept: Duration of training has not been indicated. Only one institution for training has been specified.



3. ~~Relevant extracts from~~ 6 copies of the note above with the statement may be sent to the D.P.I. and the Departments concerned for checking and amplifying the statements with refce. to the Government of India's requirements-para 1 above. They may be requested to treat the matter as very urgent and send the replies before 15th Feb. 1946.

4. Similar statements have been compiled in respect of Government servants proposed to be sent by Education, Development and P.W. Departments.

Development Department: It is observed that officers of the Fisheries Department are proposed to be sent mainly for practical training. It is presumed that their training will come under the Government of India Education Department Scheme. The Government of India have not asked for returns relating to Government servants; they may however be checked and ~~kept ready so that they may be sent as soon as called for.~~ sent along with the Returns for stipendiary students so that admissions may be arranged for as early as possible. (Last time returns in respect of Government servants were also sent.) Development may see with reference to "A" above after extracts of the notes are sent to the D.P.I. and the Departments.

31/1/46 S

Edn U.O. 5739 E(45-8) 22-1-46

(Issued as U.O. note No. 5739 E(45-7 Edn) dt 2-2-46)

DEV DEPT

Tons A alone

D/46 2.2.46 The presumption at A alone is correct. Even in 1945-46 no government servants were deputed for training under the Scheme of the Dept. of Labour. Besides, the recommendation at A also follows the proposal of the Dept who may be presumed to have satisfied himself that the proposals come under the Scheme

of the Govt of India, Educatn Dept

With these remarks, the file may be returned to E&PH

Dept
Educ
6.2.46

18
2
1946

28/S

This may come
through D.S. E&PH 9/Feb

This dept. may agree with the views expressed by EPH Secy at p. 20 ante.

Rm
11.2.46

Secy 11/Feb

EPH (c)

Dw
8890 D/46-1
9/2/46

719 CF

[Issued as Memo no. Note, No. 57393 C/45-9 Edn, dt 16/2/46] 8689

From L.A. Dept. no. 3308-2H dt 18.2.46. — P. 125 CF
—do— D.P.9. no 4568-C-45-12 dt 19.2.46. — PP 127-128 CF
—do— P.W.D. No. 5505 B/45-33 dt 23.2.46. — PP 131-139 CF
—do— Dept. No. 8886 D/46 dt 1.3.46. — PP 141-145 CF

Please see ~~this dept's notes on~~ pages 18-20 ante and on pages ~~125~~, 127-128, ~~132~~-139, 143-151 C.F.

Form "A" has been completed with the information now furnished by the Depts. The completed form may be forwarded to the Govt. of India. A draft covering letter is submitted below.

As regards Govt. servants proposed to be deputed by P.W.D. and P.H. Dept, the original idea was to depute (a) 2 executive engineers (P.W.D.) for training in "Reinforced concrete structures and prestressed structures" and "Construction of hospitals and health centres", and (b) one executive engineer, (P.H.) for training in Sanitary Engineering. It is now seen that @ the 2 executive engineers, P.W.D. are proposed to be deputed for training under the Govt. of India, Labour Dept. Scheme; and (b) the deputation of one executive engineer, P.H. will have to wait. In the circumstances, particulars regarding these 3 executive engrs. have not been included in ~~the~~ Form "A".

para 8(b) I on pages 136-137 CF.

pp 11 + 12 ante in L.F

× vide (b) above

TMS
8/3/46

GRM
6/3/46

A S III
S
Cy 11/Feb

11/Feb

[Issued as Letter no. 4894 6 C2/45-23 Edn dt 11.3.46]

pp 15

Cmr
US 9446 C2/45



98

No further action is necessary in this case. The papers may now be —

G.O. no 820 Edn., dated 16.4.46
Recorded.

TMS
15/4/46.

Abstract

356/1944

Technical Education — Scholarships for advanced studies overseas — 1946-47 — Form "A" returns sent to Govt. of India — Papers recorded.

GRM
15/4/46

Subjects

*For supplying the teaching personnel in Engineering Colleges.*

Mechanical Engineering—
(*a*) Heat and Hydraulic Engineering.
(*b*) Industrial and Administrative Engineering.

Electrical Engineering—
(*a*) Generation, transmission and utilization of electric power.
(*b*) Electrical machinery and design.

Civil Engineering—
(*a*) Structural Engineering.
(*b*) Hydraulic Engineering.
(*c*) Highway Engineering.
(*d*) Municipal Engineering.

Aeronautical Engineering—
(*a*) Aircraft structure and aircraft design.
(*b*) Aircraft navigation and aircraft instruments.

Naval Architecture and Marine Engineering—
(*a*) Naval Architecture.
(*b*) Marine Engineering.

Electrical Communication Engineering—
(*a*) Radio Communication.
(*b*) Wire Communication.

II

*For absorption in Industries (Government and Private enterprise).*

Mechanical Engineering—
(*a*) Design and manufacture of internal combustion engines.
(*b*) Design and manufacture of machine tools.
(*c*) Design and manufacture of textile machinery.
(*d*) Design and manufacture of pulverising and grinding machinery including machinery for buildings and roads.
(*e*) Design and manufacture of cutting tools like files, saws, etc.
(*f*) Manufacture of agricultural implements.

Electrical Engineering—
(*a*) Design and manufacture of electric cables.
(*b*) Design and manufacture of electric meters.
(*c*) Manufacture of batteries and dry cells.
(*d*) Design and manufacture of radio sets, etc.
(*e*) Electro-plating.

Chemical Engineering—
(*a*) Wood and lignite distillation and utilization of products.
(*b*) Paper manufacture.
(*c*) Manufacture of films.
(*d*) Manufacture of paints.
(*e*) Manufacture of lithophone.
(*f*) Electro chemistry with special reference to acids.
(*g*) Manufacture of alkalies and bye-products.

Aeronautical Engineering—
(*a*) Ground Engineering.
(*b*) Aircrafts machines and repairs.

F. Marine Engineering—
Marine Engineering and design of ships power boats.

H. Applied Chemistry—
(*a*) Manufacture of commercial solvents.
(*b*) Leather Chemistry and treatment of leather.
(*c*) Manufacture of dyes and Tinctorial Chemistry.
(*d*) Plastics and manufacture of products like bakelite.
(*e*) Manufacture of artificial silk and Nylon.
(*f*) Chemical treatment of cellulose fibre.
(*g*) Manufacture of power alcohol.
(*h*) Manufacture of fertilizers.
(*i*) Manufacture of drugs and pharmaceuticals.
(*j*) Manufacture of plate glass.
(*k*) Manufacture of other glass.
(*l*) Oil technology and hydrogenation.

I. Applied Physics—
(*a*) Fuel Technology and design of furnaces and kilns.
(*b*) Sound Technology accoustics and recording.

K. Metallurgy—
(*a*) Manufacture of alloy steels.
(*b*) Manufacture of springs and heat treatment of metals.
(*c*) Metal castings.

L. Other forms of Applied Science—
(*a*) Manufacture of metal toys.
(*b*) Manufacture of micanite.

M. Technical subjects (not covered above)—
(*a*) Rubber technology and manufacture of tyres.
(*b*) Ceramics and manufacture of ceramic ware.
(*c*) Factory management.
(*d*) Light metal spinning.
(*e*) Lithography and printing technology.
(*f*) Canning and food preservation.
(*g*) Tobacco blending and cigarette making.

III

*For absorption in the Public Works and Electricity departments.*

B. Electrical Engineering.

C. Civil Engineering—
(*a*) Irrigation research.
(*b*) Dam construction.
(*c*) River conservancy and Flood Control.
(*d*) Soil Mechanics.
(*e*) Soil erosion and soil conservation.

IV

*For absorption in the proposed Highway department.*

C. Civil Engineering—
Highway Engineering.

## PROVIDENT FUND FORM No. 10.

[Referred to in rule 19 (6).]

*Register of temporary advances and their recoveries.*

| Name and designation. | Account number. | Authority. | Withdrawals. Amount sanctioned. | Amount withdrawn. | Number of instalments for recovery. | Year. | Recoveries. April. | May. | June. | July. | August. | September. | October. | November. | December. | January. | February. | March. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | RS. | RS. | | 19 –19 . | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | |
| | | | | | | 19 –19 . | | | | | | | | | | | | | |
| | | | | | | 19 –19 . | | | | | | | | | | | | | |
| | | | | | | 19 –19 . | | | | | | | | | | | | | |
| | | | | | | 19 –19 . | | | | | | | | | | | | | |
| | | | | | | 19 –19 . | | | | | | | | | | | | | |

## PROVIDENT FUND FORM No. 11.

[Referred to in rule 10 (3).]

*Register of life assurance policies effected in favour of the Provident Fund Rules.* *under rule 10 of the*

| Serial number. (1) | Name of policy holder. (2) | Name of insurance company. (3) | Number of policy. (4) | Date of maturity of policy. (5) | Amount of policy. (6) | Amount of premium. (7) | Folio number of Register Premia. (8) | Date of receipt of policy. (9) | Dated initials of the president. (10) | Date of assignment. (11) | Number and date of letter forwarding the policy. (12) | Date of acknowledgment of policy. (13) | Dated initials of the president. (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | RS. | RS. A. P. | | | | | | | |

## PROVIDENT FUND FORM No. 12.

[Referred to in rule 10 (3).]

*Register of Premia.*

1 Name of policy-holder.
2 Folio number of Provident Fund Ledger.
3 Name of insurance company.
4 Number of policy.
5 Date of maturity of policy.
6 Number of instalments in which the annual premium is payable.
7 Amount of each instalment of premium.
8 Due date (or dates) of payment of instalment (or instalments).

| Serial number of payment. | Amount paid. | Date of payment. | Initials of the president. | Remarks. |
|---|---|---|---|---|
| | RS. | | | |

## PROVIDENT FUND FORM No. 13.

[Referred to in rule 8.]

*Statement of Provident Fund Subscriptions recovered in the month of* 19 .

| Serial number as per register of subscribers (P.F. Form No. 9). (1) | Name. (2) | Designation. (3) | Rate of pay on which subscription is based. (4) | Actual amount of subscription recovered. (5) | Month or months for which recovered. (6) | Refunds of withdrawals. (7) | Voucher number. (8) | Remarks. (9) |
|---|---|---|---|---|---|---|---|---|
| | | | RS. | RS. | | RS. | | |