Edn (1947) Department.

Ms SERIES.

G.O. NO. 713 Edn

Dated 9-4-47

[Despatch Abstract.]

College - Presidency - improvements to the teaching of Geology - Orders passed.

1-10-48 3-6-49

13-11-48

24-3-49

Back Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
(Ms)	830	Edn	17-4-46				
"	532	"	11-3-46				
"	1508	"	25-9-45				
"	1265	"	7-9-42				
	1952	"	14-10-33				
	451	"	24-3-32				

Further Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
"	1394	Edn.	5-5-49				
"	2509	"	6-8-49				
"	1275	"	19-5-48				
Ms	806	Ed	27-6-56				

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13 (Same as appp. 3-10 C.F.)

1/B

SR

ASST. SECRETARY TO GOVERNMENT EDUCATION & PUBLIC HEALTH DEPT. 2-APR 1946

UNIVERSITY OF MADRAS

From
The Registrar,
University of Madras,
Madras.

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

Recd from [illegible]

No. A. 2027

University Buildings, Madras,
2-APR 1946

Sir,

~~1825~~
4/4/46

SUBJECT: Improvement of Geological faculty in the Indian Universities.

DP 3 m below

I have the honour to forward herewith an extract from the report of Dr. W.D. West, Director, Geological Survey of India, on the above subject, forwarded by the Government of India, Department of Labour, New Delhi, and to request you to be so good as to let me know, by the 8th instant, the action that the Government may take on it, so that this University may place its views before the Central Government.

13

DIRECTOR OF PUBLIC INSTRUCTION 9-APR 1946

Curr: 647 4/46

REGISTRAR.

Seen by me at 8 pm on 11/4/46
11/4/46.

18845 A/46-1 Edn.-St. 8/4/46.

Reference to the Director of Public Instruction for remarks at an early date.

Asst. Secy. to Govt.
10/4

To
The Director of Public Instruction with cc in contd (pp 3-12 below)

III. The TEACHING OF GEOLOGY IN INDIAN UNIVERSITIES

1. General Discussion

In considering what steps might be taken to improve the standard of Indian geologists available for recruitment to the G.S.I., it is obvious that the solution of the matter lies primarily in the improvement of the training given in our Universities, etc. If this could be improved, then many of our difficulties would disappear, and we should be able to recruit direct from the Universities without the necessity for any special post-university and pre-G.S.I. training. That a similar difficulty has been felt in Great Britain is clear from Sir Edward Bailey's reference to a scheme of special training for candidates for the British Geological Survey and for oil and mineral companies, referred to in the previous section.

2 To ascertain what changes might be required to effect an improvement, I visited the five most important centres in India teaching geology. Before dealing with each of these departments in detail, however, it may be helpful if I first offer a few general observations.

3 In the first place there is little uniformity in these centres either as regards the authority under which they function or as regards the organization of the teaching. Some come under the control of the Provincial Government, some are controlled by the Universities, and one is directly controlled by the Central Government. Then as regards the course of training, in some centres geology is included as a subject in the Intermediate course, and in others it is not. In some centres, the B.Sc. Honours course has to be completed in two years and is followed by a further two years for the M.Sc. In other centres three years are required for B.Sc. Honours, followed by one year for the M.Sc. In most centres the teaching of geology is given partly for its cultural value and partly for its technical value; in one only (Dhanbad) is it taught solely as a technical subject. With so many variations, it is difficult to make general recommendations suitable for all centres, and for this reason, specific recommendations for each centre are given later in this section. Nevertheless there are certain aspects in which all the departments are weak, and undoubtedly the most important of these is the inadequacy of the field training.

4 Few authorities seem to realise how important it is that a geology student should have adequate field training. Unfortunately some of the centres teaching geology are situated a long way from outcrops of rocks, and the students have to travel far to get their field training. Generally no adequate financial assistance is provided to enable either the staff or the students to take part in a sufficient number of excursions. Moreover, in many cases the staff themselves did not in their student days receive proper field training, and they can hardly therefore be expected to give adequate field training to others.

5 In addition to certain recommendations which I have given in this section, an immediate improvement could be effected if one or possibly two of the younger and more energetic members of the staff of each centre were given a special two months' course of training in field work by the G.S.I. Though this would take up the time of one or two of our officers while it lasted, it is a course that would only have to be given once in say eight or ten years, and it would be the quickest and most direct means of improving the standard not only of those students who would be recruited to the G.S.I., but also of those who might be employed by Indian States or private firms. The Head of one of the departments of geology that I visited told me how greatly he had benefitted by having been on the staff of the G.S.I. for a short

period, and attached to one of its officers. As a result, he now undertook the training of his own students in field work with greatly increased confidence. In addition it might be profitable if one or two of the more senior members of the teaching staffs were enabled to go abroad to study recent developments in scientific research and technique. This possibility I have referred to again below, when discussing each centre.

6 In the case of one or two centres the position of geology has so deteriorated that some rather drastic action is necessary if an early improvement is desired. In these cases, I strongly recommend that first-class men of University experience be recruited from abroad on a contract basis for a year or two, to re-organise the departments and to train their successors. Alternatively, and this has been suggested to me by my colleagues on the G.S.I., two senior officers of the G.S.I. might be deputed to these departments to re-organize them, and their places on the G.S.I. taken temporarily by Geologists appointed from abroad. The two centres which I have particularly in mind are Calcutta and Dhanbad.

7 At Calcutta, as shown below, we have an example of haphazard planning in which a half-hearted attempt was made some years ago to separate the post-graduate from the undergraduate teaching, but which has resulted in the two becoming inextricably mixed up to the great detriment of both. For this and other reasons, I strongly recommend that a return be made to a single department of geology embracing both undergraduate and post-graduate teaching. For this purpose, it is desirable to appoint a first-class man as head of the whole department, and I recommend that for this post a man be recruited from abroad or from high up in the G.S.I.

8 At Dhanbad, the Indian School of Mines should be the finest centre in India for the training of geologists, as indeed it was intended to be. Instead, it is the most negligible of the five centres that I visited. Later in this section I have given what I think to be some of the reasons for this sad state of affairs. But it seems to me that unless the whole atmosphere of the place is changed, and a first-class man from abroad or from the G.S.I. given control of the re-organizatiln of the geology department, no real improvement can be expected.

9 There is one further University for which it might be profitable to engage a man from abroad, and that is the Muslim University, Aligarh, where geology is not at present taught. Some years ago, the G.S.I. recruited two or three Aligarh students who had taken the M.Sc. in Geography, with the intention of training them in geology. The scheme was only partially successful, for it is not possible for a student, attached to an officer of the G.S.I., to get the basic training in the fundamentals of the subject which he normally gets during the two to three years' course at a University. It is understood, however, that this University is desirous of starting a department of geology, and so of enabling Muslim students to take a part in the work of the G.S.I. As a start, it seems likely that geology will be included as a subject in the Intermediate this year. This is alright so far as it goes. But early preparations should be made for the B.Sc. teaching of those students who will be starting their geology Intermediate this year. If an experienced man from abroad were appointed, he would be able to plan the layout of the new department on sound and adequate lines, as well as organize the actual teaching. Possibly it would be simplest to utilise the man who would be appointed to re-organize the geology teaching at Dhanbad, to give additional advice on the organization of the geology department at Aligarh.

VI

10 In this place, I should like to emphasise, what I think will be universally admitted, that the success of any department of learning depends to a large extent upon the personality of the head of that department. If he is a man of high character, of vision, and of enthusiasm, then he will attract the best students and the best staff, and his department will become known throughout the country. Such men have been and still are found in our Indian Universities, and so far as geology is concerned, I would refer to the example of the late Prof. K.K. Mathur, who did so much within the means at his disposal to make the geology department of Benares Hindu University a success. In considering therefore, the re-organization of our University and other geology departments, too much stress cannot be laid on having the right man at the top. If this is assured, then other improvements will follow almost automatically. But in seeing that we get the right man at the top, and the right staff for him, the conditions of service should also be made sufficiently attractive. It seems quite fantastic that the pay of the head of a University department of post-graduate teaching in geology should start as low as Rs 200/-; or that the pay of a lecturer should start as low as Rs. 100/-, and that of a demonstrator as low as Rs 40/-. And yet such is commonly the case in India, with the result that in those departments in which the salaries are lowest, changes are continuously being made in the staff, to the detriment of the department.

'A'

para 9 on p4 above

11 As regards the period of training that should be given to a student to qualify him for the B.Sc. Honours degree, I mentioned above that the period varied from place to place. At Benares and Calcutta only two years are given for the B.Sc. Honours course, during which three subjects have to be studied; but at Madras and Bangalore, three years are required for the B.Sc. Honours, during the first two of which three or more subjects are studied, while the last year is devoted solely to geology. In the former Universities two years are allotted to the M.Sc. and in the latter one year, so that the total time required for the M.Sc. is the same everywhere, namely four years. At Dhambad, the period required for the Diploma is four years.

12 In considering which is the better of these two courses, it should be remembered that a boy in India when he enters his University for the Intermediate course has rarely had any training in science; whereas a boy in Europe has generally had a considerable scientific training at his school before going to the University. If therefore it should be possible to make uniform the courses of training for B.Sc. Honours in Indian Universities, I would prefer that the system in South India be followed. From my own experience in teaching at the Presidency College, Calcutta, I know how extremely difficult it is to cover the B.Sc. Honours course in Geology in the short space of two years. Recently Calcutta has introduced geology as a subject for the Intermediate, and this should ease the position in that place. But Benares have not done so and there the two years devoted to the B.Sc. Honours course can hardly be considered adequate.

13 It is desirable, I think, to utter a word of warning against the institution of the teaching of geology at too many Universities in India. Already there are a number of small centres teaching geology in addition to the five which I have visited; and it is known that three or four other Universities are contemplating the introduction of geology into their Honours B.Sc. course. At the moment, however, the supply of first-class geologists in India is so limited, and

is likely to remain limited so long as the G.S.I. is expanding rapidly, that insufficient competent geologists are available to provide staffs for these new departments. It would be much better to concentrate on a few good departments of geology rather than to dissipate our slender recources over a large number of less effective departments. I see no objection to geology being taught at new centres primarily for its cultural value. But if these centres intend to encourage their students to take up geology as their profession, then it would be better that they should wait until the position as regards the recruitment of competent teaching staffs has become eased.

14 Two further general matters call for comment in this place, (1) the inadequate size of the teaching staffs, and (2) inadequate equipment. As regafds (1), in some centres the staff is so inadequate that certain important parts of the syllabus are not being given proper attention. For example, advanced petrology and mineralogy are at the moment receiving scant attention in the M.Sc. course at Benares; while for a number of years, there has been no suitable lecturer in Palaeontology for the M.Sc. course at Calcutta. In nearly all the centres visited, it was found that there had been a rise in the number of students taking geology during the past one to two years, with every indication of a further rise in the immediate future. But it will not be possible to cope with this increase, unless the strength of the staffs is also increased, and that in such a way as to keep them balanced, due regard being paid to all the more important sections of the syllabus.

15 In certain centres, for example at Dhanbad and Benares, the students taking geology have the advantage that they also have to take lectures in mining and surveying. A knowledge of these subjects is essential for students who are going to practise geology as a profession, and I strongly recommend that such lectures, with the necessary practical work, be also introduced at the other centres, with the necessary additions to the staff.

16 I hold strongly to the view that a teaching centre, if it is to be alive and active, must also be to some extent a research centre. This is not possible if the staff are so overworked that they have no time for research. The research work done by the staff not only keeps them up-to-date and in touch with modern advances; it also has an inspiring effect on the students. At the moment, however, very few members of the geology teaching staffs have any time for research. Certainly very few do any.

17 It will thus be seen that there is great necessity for the expansion of the size of the staffs, and more detailed recommendations are given below in the case of each centre.

There remains the question of equipment. In most of the departments I visited, the equipment of microscopes and other special instruments is not only in rather poor condition, but also inadequate in quantity for the increased numbers now taking geology. The result is that instead of the practical classes being taken in batches of reasonable size, they have to be taken in small batches in accordance with the number of microscopes etc. available at one time. This means much necessary work for the staff in charge of the practical classes. There are, however, difficulties to be overcome before the position can be improved. In the first place the grants available for apparatus are in many cases inadequate, especially with the increased prices now prevailing. In the second place, it is difficult at the moment to get any apparatus at all from

abroad. The best that can be done is to place orders now and to await the cessation of hostilities when orders will be considered by various fims in rotation. There is here, I think, a good case for the Government of India providing assistance. If the approximate requirements of the various geology centres are known, the Government of India, through the High Commissioner for India in the United Kingdom and the Agent General for India in the U.S.A. might place advance orders for necessary equipment which the Universities could take up as soon as it is available.

18 Finally, in closing these introductory remarks, it may be emphasised that the ideal to aim at is close co-operation between the G.S.I. and the various University Geology Departments. It has already been suggested that certain members of the staffs of the Universities might be given a course of special training by the G.S.I. It may also be suggested that every year senior officers of the G.S.I. should be invited to give courses of lectures at some of the University departments on subjects which they have specially studied. It is always refreshing to students to hear men from the outside world addressing them on a special subject, while it is also helpful to officers if they are asked from time to time to give concrete shape to their ideas. It is only by such close co-operation that the Universities can keep in touch with the requirements of the G.S.I. and the G.S.I. can appreciate the needs or difficulties of the Universities.

19 I will now refer in greater detail to each of the centres that I visited. In doing so, I should like to express my thanks to the Heads of the Departments and the member of their staffs for the help and assistance they so readily gave me. I can only express the hope that, as a result, the teaching of geology in India may be substantially improved, to the advantage both of the Universities and the G.S.I.

D. MADRAS

A The course of instruction given at the Presidency College, Madras, seems to have been well devised, but it needs a word of explanation.

Students admitted to the B.Sc. Course (Pass or Honours) are selected from among those who have taken one of the following science groups in the Intermediate:-

1. Mathematics, Physics and Chemistry
2. Natural Science, Physics and Chemistry. (Natural Science comprises Botany, Zoology and Human Physiology)

The B.Sc. students have thus had a good preliminary training for two years in science subjects that will help them to grasp the geology prescribed for the degree courses.

In the degree courses, the subject is taught to three different standards:

1. B.Sc. subsidiary standard
2. B.Sc. Pass main standard
3. B.Sc. Honours main standard.

We are only concerned with 2 and 3.

The B.Sc. Pass is a two years' course, and comprises English (for the first year only), one main subject (geology in the present case) and two subsidiary subjects. The only combination at present available for the latter consists of Botany and Zoology. This, I think, is a weakness, and provision should also be made for taking Chemistry and Physics as the two subsidiary subjects.

The B.Sc. Honours is a three years' course comprising English (again for the first year only), one main subject (geology in the present case), and one subsidiary (which at present can only be chemistry) which is taken for the first two years. During the third year, only geology is studied.

The M.Sc. is a research degree, not more than two students being admitted at one time. B.Sc. Honours students can sit for the degree one year after graduating; but B.Sc. pass students must study for two years before appearing.

The above courses, except for the one weakness referred to above, seem to have been well devised; and a student who passes out with B.Sc. Honours in geology from this University can at least claim that his training has not been too hurried.

Staff

The staff of the geology department consists of the following:-

1.	1 Professor ..	₨ 200/- to ₨ 700/-
2.	2 Assistant Professors ..	100/- do. 200/-
3.	2 Demonstrators	40/- do. 65/-

Z Considering the large number taking geology (174 this year, including subsidiary), and the fact that I am suggesting below that additional lectures in mining and surveying should be given, the above staff must be considered too ~~xx~~ small, and I recommend the appointment of at least one more Assistant Professor and one more Demonstrator. The pay is also extremely low, with the result that the staff is constantly changing, to the detriment of the department. I recommend that the starting pay of the Professor should be raised to ₨ 400/-; that the pay of the Assistant Professors should be on the scale ₨ 200 to ₨ 300; and that the pay of the Demonstrators should be on the scale ₨ 75/- to ₨ 150/-. Even these scales, however, must be considered to be very low.

Number of students in training

The number of geology students now undergoing training is as follows:-

Subsidiary	130
B.Sc. Pass	20
B.Sc. Honours	22
M.Sc.	2

This results in 10 pass and 8 Honours graduates being turned out each year. With additional equipment and more staff, it should be possible to turn out 12 Pass and 12 Honours graduates every year.

Course of training

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The only suggestion that I have to make here is that a course of lectures in mining and surveying should be added to the curriculum of the B.Sc. Honours students in their last year. I need not repeat the reasons for the desirability of this addition. It should be part of the geology course for the Honours students, and if it can also be included in the Pass course, so much the better.

Field training

For the B.Sc. Pass students two excursions in the third year and one in the fourth year are compulsory. For the Honours students, two excursions in the 3rd year, two in the 4th year and one in the 5th year are compulsory.

Madras is well situated for field training, and I had the impression that it was being carefully attended to. Nevertheless the students find it difficult to attend the excursions, since the grants that were formerly given to them have been reduced since 1932. The grants should be restored so that the students get at least their 3rd class train and bus fares for two tours in each year. As regards the staff, at least one member should be permitted to attend for every 12 students.

Equipment

As in every other centre, the present equipment is insufficient for the numbers now taking geology. At least 8, and preferably 12, more microscopes are required. With this addition, it should be possible to turn out at least 12 B.Sc. Honours (as well as 12 B.Sc. Pass) students a year, whereas at present only 8 B.Sc. Honours students can be turned out in one year.

The following additional items of equipment are also required:

- 1 Refractometer
- 1 Ore crusher
- 1 Electromagnetic separator
- 1 Recording micrometer
- 1 Muffle furnace
- Concentrating tables

I gained the impression that there is a very keen atmosphere in this Department, both the staff and the students working together in harmony and to effect. I believe it would be greatly to the advantage of the Department, however, if the present Professor were permitted to go abroad for about six months, to familiarise himself with University teaching in the West, and with modern methods of technique. On his return, one of the Assistant Professors (Mr. A. Ramakrishna) should also be permitted to go abroad for special training.

~~2 drafts~~

Draft II ⑥ 11 Ext. 4. (A)

Letter / Ref No. 18845 A/46 - 2 Edn. dt. 8.4.46

To

W. The Registrar, University of Madras
K/8/4/46 Chepauk, Madras.

W. Endt. in orgl. No. 18845. A/46.1. Edn. d/8.4.46

Sir,

Sub:- University - Geological faculty - Improvements - Suggestions.

p 1 ante

Ref:- Your letter No. A 2027 dt 2.4.46.

I am directed to ~~inform you~~ say that the ~~me~~ suggestions made by Dr. West, Director, Geological Survey of India in his report enclosed with your letter cited, have been referred to the Director of Pub. Instn. for remarks and their reply ~~[illegible]~~ will be sent as early as possible.

p 1 ante

6.4.46. K/6.4.46 6/4/46 8/4

12

2 Drafts

Draft I.

Ext. Ward

Endt. No. 18845 A/46 - Edn. dt.

Sub:- University - Geological faculty - Improvements - Suggestions re: the Pcy. College, Madras.

Ref: Letter from the Regr., University of Madras No. A. 2027. dt. 2.4.46.

A copy of the letter together with the report of Dr. West, Director of Geological Survey of India is communicated to the D.P.I. He is requested to offer his remarks on the above report with particular reference to :- ' questions regarding the Pcy. College Madras ~~contained therein~~ made therein.

6.4.46.

× p1 CF

✓ pp 3-10 CF

To

The D.P.I.

13

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C.F. 30.

EDUCATION DEPARTMENT.

Received ....19 . Registered 19

ASST. SECRETARY TO GOVERNMENT
1 8 MAY 1946
EDUCATION AND PUBLIC HEALTH DEPT.

Subject.

Colleges - Teaching of Geology in Presidency College-improvements suggested - Remarks.

25412

ENCLOSURES.	
No.	
Spare copies	

R.C.No. 484-K/46.

Station Madras Dated the 11th May 1946.

From (Name) Dr. S.R.U. Savoor, M.A., D.Sc., I.E.S.,

(Designation) Director of Public Instruction.

To The Secretary to the Government of Madras,

EDUCATION AND PUBLIC HEALTH Department.

Sir,

p1 ante

REF: Endt. 18845-A/46-1 Education dated 8--4--46.
....

I have the honour to submit the following remarks on Dr. West's report:

p9 ante

Staff:

At the time of Dr. West's visit the staff in the Geology Department in the Presidency College consisted of one Professor, two Assistant Professors and two Demonstrators. But at present we have one Professor, three Assistant Professors and two Demonstrators. Therefore according to Dr. Wests suggestion there should be one more demonstrator in the Department. The question of employing an additional demonstrator will be taken up for consideration under the Part II scheme for 1947-48.

A

see Lm p9 above

Pay:

p3 ante para 10 on

On page 3 para 1 Dr. West refers to the meagre pay of the members of the staff and concludes thus "In Departments in which the salaries are lowest changes are continuously......

continuously being made in the staff to the detriment of the Department". Dr. West recommends a starting pay of Rs.400/- Rs.200 and Rs.75/ to Professors, Assistant Professors and Demonstrators, respectively. The scale of pay of Tutors and Demonstrators has recently been raised to Rs.70-100 from Rs.40-65. The question of raising the minimum in the scale of pay of Professors and Assistant Professors may better be taken up with the general question of raising the pay of Government servants.

Z. on p 9 ante

G.O. 845 Edn.
18-4-46
(C)

Course of study.

When Dr. West visited the College, the only combination available for the Geology B.Sc. Main students was Geology main, Zoology and Botony subsidiary. But from June 45 the combination of Geology (Main) Physics and Chemistry subsidiary is also offered. The question of adding Surveying and Mining as subsidiary subjects for Geology B.Sc (pass) &(Honours) courses has to be decided by the University and if the University decides in favour of this combination, the Principal Presidency College is of opinion, that provision can be made for the teaching of such a combination in Presidency College ~~and~~ also provided Government sanction the additional staff and equipment required. The Principal has however suggested that the B.Sc.(Geology) Honours students may be given a course of training in Surveying for about a month either in the College of Engineering, Guindy, and if this is not practicable the necessary training may be arranged in the Presidency College and that a sum of Rs.500/- for employing a qualified hand for ~~th~~ teaching surveying to the students in 1946-47 may be required if the latter course is adopted.

Z'

Field Training and Tour Expenses.

The suggestion is that Geology students should be given atleast III class train and bus fares for two turns in each year. The students were allowed III class Railway fare etc, for the instructional tours till 1932. The giving of such an allowance was stopped as a mesure of retrenchment. The question of restoring T.A. to students may now be taken up. The estimated expenditure in this connection is Rs.3,000 per annum.

(G)
G.O. No. 451
24-3-32
C paras,
p 35

Equipment:

The Government have recently sanctioned additional equipment for the Geology Laboratory. Further additions will be made in consultation with the Principal.

G.O. 830 Edn.
17-4-46
(G)

11.5.46

for Director of Public Instruction.

RR.11/5.

SG
11/5

UNIVERSITY OF MADRAS

From

The Registrar,
University of Madras,
MADRAS.

To

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

No. A.2801

University Buildings, Chepauk, Madras,
25th May 1946.

ASST. SECRETARY TO GOVERNMENT
28 MAY 1946
27986
EDUCATION AND PUBLIC HEALTH DEPT.

Sir,

SUBJECT: Improvement of Geological Faculty in Indian Universities.
Ref: Your letter No. 18845-A/46-3, Edn. dated the 2nd May 1946.

I have the honour to request you to be so good as to let me know whether you have received the remarks of the Director of Public Instruction on the Report of Dr. W.D. West; and if so, when the reply of the Government may be expected to be received in this office.

As the Government of India have called for an immediate reply to their correspondence on the subject with the University, I shall be glad if you will be so good as to forward the remarks of the Government early, before the middle of the next month.

REGISTRAR.

16
I

39
27/6

~~Letter~~ No. 18845 A/46-4 Edn d 27-6-46
Refer:

To

The Registrar, University of Madras
Madras

~~Fd~~ 27.6.46

Sir

University - Geological faculty - Improvement - Suggestion: - Your letter No 2801 d 25-5-46

I am directed to say that the remarks of the D.P.I. have since been received and a reply will be sent as early as possible.

Sd
26.6.46

ORH
26/6/46

No. A I 3251 UNIVERSITY OF MADRAS. 17

From
THE REGISTRAR,
UNIVERSITY OF MADRAS.

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

ASST. SECRETARY TO GOVERNMENT
29 JUN 1946
EDUCATION AND PUBLIC HEALTH DEPT.

University Buildings,
Chepauk, Madras,

Sir,

Sub: Improvement of Geological Faculty in Indian Universities.

- - -

34739

I have the honour to invite your kind attention to this Office letter No.A.2801 dated 25th May 1946 and to request you to be so good as to let me know when a reply may be expected.

REGISTRAR.

ks/26/6/-

12
3-2

(10) Edn. and P.H. Dept.(A). 19

LETTER/Regr. No. 18845 A/46-5 Edn dt 2-7-46

1
3/9
Despd
6-7

p1CF

To

The Regr., Madras Unty.

Sir,

Improvement of Geological faculty in the Universities.

Ref:- Your letter No.2027, dated 2-4-46.

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pp3-10 CF

I am directed to offer the folly. remarks on the several suggestions contained in the report of Dr. W.D.West, Dir., Geological Survey of India.

Staff and their Salary: The staff of the Presy. College, Madras, consists of the following:

1 Prof. on Rs.200-700
3 Asst. Profs. on Rs.100-200
2 Demonstrators on Rs.70-100

vide p13 CF

It will be observed from the above, that the staff has been strengthened by 1 Asst. Prof. since Dr. West sent in his report and also that the scale of pay of Demonstrators has been increased from Rs.40-65 to Rs. 70-100. The question of strengthening the staff by one more Demonstrator will be considered in connection with the budget estimate for 1947-48. The Govt have also under consideration a proposal to sanction a higher starting pay to the officers of the M.E.S

(C)

p14CF

Course of study: Since Dr.West's report, instruction is offered in the B.Sc.(Geology) in the Presy. College, with ~~a combination of~~ Geology as main and Physics and Chemistry as subsidiary subjects. Whether Surveying and Mining can also be added as subsidiary subjects for B.Sc. ~~Geology~~ (Pass) and (Hons.) - ~~Geology~~ - courses in Geology is a matter for decision by the Unty. If the Unty. decides in favour of this combination, the qn. of offering instruction in these combinations in the Presy. College will ~~then~~ be taken up by the Govt.

~~estimated to cost~~
~~Rs. 12,500/-~~

(I) G.O. 532 Edn
11-3-46

Equipment: The Govt. recently sanctioned ~~addl. equipment~~ the purchase of a petrological Microscope for the Geological Laby. of the Presy. College; ~~a copy of the proceedings on the subject is enclosed~~. The Govt. will be prepared to sanction an

34 20

addl. equipment that may be necy.

Deputation of the present Professor for training overseas.

Recently the D.P.I has reported that it is not possible to spare the services of the Professor for training overseas.

Field training and tour expenses: The matter is under consideration and a separate communication will be sent.

Y.O.S.,

W 28.6.46

BM 29/6/46

B 2.7.46

Copy to DPI

Despd 2-7-46

Draft

(11)

Letter No 18845 A/46-~~8~~ Edn d 6-9-46 / Edn

To The Registrar,
University of Madras,
University Bldgs,
Chepauk, Madras.

Sir,

Improvement of Geological faculty in the Universities

pp 19-20 cf

Ref My Lr No 18845 A/46-5 Edn d 2-7-46

In continuation of my letter cited, I am directed to offer the following remarks on the suggestions regarding field training and tour expenses contained in the report of Dr W.D. West, Director, Geological Survey of India.

2 Field Training. It is proposed to arrange for a months training ~~for~~ in Surveying

r the Geology students of the Presidency College, in the College of Engg., Guindy. The DPI is being asked to submit necessary proposals in this regard.

3 Tour Expenses. This will be considered in connection with the Budget Estimate for 1947-48.

Y.O.S

Copy to the DPI

CS 26-8-46 B 26.8.46.

B Y. Secy

---

(12) Memo. No. 18845 A/46-9 Edn dt 6-9-46 EJPH(

D/h B 6/9

Sub:- Improvement of Geological facility in the Universities.

From the DPI, R.C. No. 484-K/46 dt 11-5-46.

pp13/14 NF

To The DPI.

pp19-20 CF

The attention of the DPI is invited to Govt. Lr / Ref No 18845 A/46-5 Edn dt 2-7-46 to The Regr of the University of Madras, copy ~~of which has already been~~ sent to him and to ~~the copy of~~ Lr No. 18845 A/46-7 Edn dt (~~which is~~ copy enclosed). He is requested to bring forward ~~the~~ proposals ~~for the employment~~ to employ ~~of~~ a demonstrator in the Geology Dept of the Presidency College and ~~for the~~ to sanction~~ing of~~ tour expenses ~~for the~~ of Geology students of the College, as Part II Schemes for ~~1947~~ 1947-48.

Draft I

2. The Director is requested to send an estimate of cost involved

11 on p5 NF

~~in~~ in the proposal ~~for train~~ ~~the~~ to the training ~~of~~ Geology students for one month in the College of Engg., ~~College~~ Guindy

ES 21-8-46

B 26-8-46

OSM 28/8/46

B

J. Secy

To The DPI (with a copy of Draft I

Roc.No.5274 K2/46.

Office of the Director of Public Instruction, Madras, dated 30-9-46.

From

Dr. S.R.U. Savoor, M.A., D.Sc., I.E.S.
Director of Public Instruction, Madras.

To

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

ASST. SECRETARY TO GOVERNMENT
EDUCATION & PUBLIC HEALTH DEPT.
1 - OCT 1946

57682

Sir,

Sub: Improvements of Geological faculty in the Universities - Additional staff for the Presidency College, Madras.

Ref: Govt. Memo. No. 18845 A/46-9, Education, dated 6-9-46.

I have the honour to request that Government may be pleased to sanction with effect from 1-7-47 the employment of a Demonstrator for the Geology Department of the Presidency College, Madras. In view of the report of Dr. West, Director, Geological Survey of India, an additional demonstrator is necessary for the department. With regard to tour expenses the Principal, Presidency College estimates that a sum of Rs.3000/- will be required annually.

2. In regard to the training of the students in Surveying, the Principal, College of Engineering reports that the training will last for 6 months, with one class on all Saturdays. The expenditure in connection with the training will be as follows:-

cost of training in coll. of Engineering

1.	Remuneration for the staff at Rs.50/- per mensem for 6 months ..	Rs.300
2.	Cost of Scientific instruments at Rs.50/- a student	400
3.	Conveyance allowance to the students ..	200
4.	Miscellaneous expenses - cost of graph sheets supplied for 6 months ..	20
		Rs.920

Prl. all

With regard to the purchase of mathematical instruments the Principal, College of Engineering, reports that it will be too much to expect the students to provide themselves with costly instruments and has suggested that these should be purchased at Government cost so that they may be used by successive students also. I recommend that the proposal to purchase the instruments at Government cost may be accepted.

3. The extra expenditure involved in the above proposals will be as follows:-

1947-48.

1 Demonstrator Rs.70-100	...	Rs.560
Tour Expenses	...	3000
Expenses in connection with Surveying		920
		4480 or 4500 in round figures.

P.T.O.

Ultimate Cost.

Average pay of a demonstrator Rs.70 - 100 89 1/3 x 12 -		1072
+ DA TA? MHA		
Tour expenses	..	3000
Expenses in connection with training in surveying		520
		4592 or 4600

516
3000
320
4836
Rs. 400 non-recurring

4. I am including the necessary provision in Part II of my Budget Estimate for 1947-48.

30.9.46

TRB.30/9 for Director of Public Instruction.

Copy to Budget and K Sections.

20/9

Edn and P.H.

IV

Part II Scheme for 1947-48

[Subject - Improvements to the teaching of Geology in the Presidency College, Madras]

Summary.

Head of account	Items of expenditure.	Ultimate cost R. Rs	Ultimate cost Non-R Rs	Cost in 1947-48 R. Rs	Cost in 1947-48 Non-R. Rs
37 b. Education - University - Govt. Arts Colleges - A. Arts Colleges - Men				(8 months charges)	
2. Pay of Establishments ✓ - Voted	A demonstrator on Rs 70-100 (Average Rs 89.3)	1072	—	560 or 600	—
	~~Temporary additions to pay~~	~~[illegible]~~	—	~~36~~	—
3. Allowances and Honoraria.	Allowances:- Madras House Allowance Rs 15 Dearness Allowance Rs 18	396	—	264 or 300	
	Travelling Allowance for staff and students	3000	—	3000	—
	Conveyance allowance to students	200	—	200	—
		3596		3500	
Total - A. Arts Colleges - Men	~~Other Compensatory allowance~~:-	4668		4100	
37. d Education - University - Govt. Professional colleges - B. Engineering college	Remuneration for staff at Rs 50 p.m. for 6 months	300	—	300	—
Other 4. ~~Laboratory~~ charges (voted) ~~Other contingencies~~	other contingencies Cost of scientific instruments at Rs 50 a student	—	400		400
	Miscellaneous expenses	20	—	20	—
	Cost of graph sheets ~~supplied~~ for 6 months				
Total - 37 d. B.		320	400	320	400
Grand total	~~[illegible]~~ cost	~~5038~~ 4988	400	~~4300~~ 4420 4400	400

In April 46 the University of Madras forwarded for consideration by the Govt. a report of Dr. W. D. West, Director, Geological Survey of India on the improvements of Geological faculty in the Indian Universities. With ref. to the course of instruction given in ~~Geography~~ Geology in the Presidency College, Madras, Dr. West has observed as follows:-

"The course of instruction given at the Presy. College, Madras, seems to have been well devised, but it needs a word of explanation

" The staff of the Geology department consists of the following :-

1. 1 Professor.	Rs. 200 to Rs.700
2. 2 Asst.Professors.	Rs.100 to Rs.200
3. 2 Demonstrators.	Rs.40 to 65

Considering the ~~large~~ number taking geology (178 this year, including Subsidiary), and the fact that I am suggesting below that additional lectures in mining and surveying should be given, the above staff must be considered too small, and I recommend the appointment of at least one more Assistant Professor and one more Demonstrator . The pay is also extremely low, with the result that the staff is constantly changing, to the detriment of the department. I recommend that the starting pay of the Professor should be raised to Rs. 400 that the pay of the Assistant Professors should be on the scale Rs. 200 to Rs.300 and that the pay of the Demonstrators should be on the scale Rs. 75 to Rs. 150. Even those scales, however, must be considered to be very low.

Course of Training.

" The only suggestion that I have to make here is that a course of lectures in mining and surveying should be added to the curriculum of the B.Sc. Honours students in their last year. I need not repeat the reasons for the desirability of this addition. It should be part of the geology course for the Honours students, and if it can also be included in the Pass course, so much the better.

Field Training.

For the B.Sc. Pass students the excursions in the third year and one in the fourth year ~~are~~ compulsory. For the Honours students, two excursions in the 3rd year, two in the 4th year and one in the 5th year are compulsory.

Madras is well situated for field training, and I had the impression that it was being carefully attended to. Nevertheless the students find it difficult to attend the excursions, since the grants that were formerly given to them have been reduced since 1932. The grants should be restored so that the students get at least their 3rd class train and bus fares for two tours in each year. As regards the staff, at least one member should be permitted to attend for every 12 students.

The Staff in the Geology ~~Section~~ of the Presidency College has ~~since~~ been strengthened by 1 Asst Professor ~~since~~ Dr West sent in his report and ~~also~~ the scale of pay of Demonstrators has been also ~~increased~~ raised from Rs 40-65 to Rs 70-100. The DPI whose remarks were called for on the report has ~~recommended~~ proposed the ~~following~~:-

(1) the employment of a demonstrator in the Geology ~~Section~~ dept of the Presidency College, Madras
(2) the expr on instructional tour of Geology students
and (3) the Training of Geology students in Surveying in the College of Engg: Guindy for six months with one class on Saturdays.

This Dept. supports the Director's proposals and recommends the inclusion of the ~~necessary~~ provision in the ~~next year's~~ budget estimate for 1947-48 (as shown in the Summary.

ES
7-12-46

9/12/46

29

Roc.No.5274 K2/46.

Office of the
Director of Public Instruction,
Madras, Dated 27-2-1947.

From
Dr. S.R.U. Savoor, M.A., D.Sc., I.E.S.,
Director of Public Instruction, Madras.

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

16994

ASST. SECRETARY TO GOVERNMENT
1 - MAR 1947
EDUCATION AND PUBLIC HEALTH DEPT.

Sir,

Sub:- Improvements of geological faculty in the Universities - Survey training for the Geology students of the Presidency College, Madras.

--o--

I have the honour to invite the attention of Government to my letter Roc.No.5274 K2/46, dated 30-9-1946, submitting certain proposals for the provision of Survey training to the geology students of the Presidency College, Madras. These proposals are apparently being considered by Government as Part II Schemes for 1947-48.

2. The Principal, Presidency College has since reported to me that owing to the proposal not having so far materialised the present final year geology students may not stand much chance of being selected to posts in the geological survey of India for vacancies arising in August 1947. It is stated that both the Andhra and Mysore Universities have acted up to the recommendations of Dr. West by giving their students a course of practical training in Surveying in the current year itself. As the students of the Presidency Colleges may not miss the chance of selection for want of the required training, the Principal has suggested that the present final year Hons. students may be given Survey training in the College of Engineering, Guindy in April after their University examination for a period of one month. The present fourth year students also may join this training. The Principal, College of Engineering, Guindy who was consulted, states that he will undertake the training of the students for one month from the end of April 1947. The expenses will be as follows:--

1. Equipment for each student.		Rs.57/-
2. Honoraria for the Asst. Instructor		100/-
3. -do-	Instrument Repairer	15/-
4. -do-	peon.	5/-

He suggests that Presidency College may purchase and stock the equipment so that they can be used by successive batches of students. The training in subsequent year, will be for 6 months as already reported in my letter under reference. The numbers of students to whom training has to be given now is about sixteen.

3. I request that in view of the urgency of the matter the proposal to give Survey training for a period of one month in April to the 4th and 5th year students of the Presidency College may kindly be accepted and the expenditure referred to above sanctioned by Government.

57 x 16 29/12

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

for Director of Public Instruction

M.K.28/2.

Very urgent (16)

Memo. No. 18845 A/46-13 Edn of 10-3-47. 31 Edn H(A)

College - Presidency - Geology students - Survey training in College of Engg. Guindy.

From the DPI, No. 5274 K2/46 d 27-2-47

p 29 of

7/11/3

p 25 of

In his letter No. 5274 K2/46 d 30-9-46, the DPI reported that the expns connected with the training of Geology students of the Presidency College in Surveying in the College of Engg. Guindy will be as follows.

11/3

Remuneration for the staff at Rs 50 p.m. for 6 months	Rs 300
Cost of Scientific Instruments at Rs 50 a student	400
Conveyance allowance to the students	200
Miscellaneous expenses	20
Total	Rs 920.

p 29 of

In his present letter cited, the Director has estimated the Honorarium to be paid to the Engg. College staff at Rs 120 a month (Asst. Instructor, Instrument Repairer & Peon) against Rs 50 as originally reported. It is also seen that the Cost of equipment to be supplied to each student has also ~~been~~ been slightly raised from Rs 50 to Rs 57. The Director is requested to explain the variation in Costs and to send a reply to Govt. at a very early date.

8.3

8/3/47

To
The DPI

14/3.

33

17

EDUCATION DEPARTMENT.

From

Dr. S.R.U.Savoor, M.A., D.Sc., I.E.S.,
Director of Public Instruction, Madras.

To

The Secretary to Government,
Education and Public Health Department.

R.O.C.NO.5274-K2/46, dated 18-3-1947.

Sir,

22457

Sub:- PRESIDENCY COLLEGE, Madras - Geology students - Survey Training in the College of Engineering, Guindy.

Ref:- Government Memo. No.18845-A/46-13, Edn., dated 10-3-1947.

***

The cost of equipment for each student as given in my letter Rc.No. 5274-K2/46, dated 30-9-1946 worked out to Rs.52-8-0 as per details given below:--

1.	50 feet Metallic Tape in leather case	Rs.15--8--0
2.	T ' Squares	3--8--0
3.	Set Squares	7 0 0
4.	Wooden scales and offsets.	9 0 0
5.	III Class Mathematical Instrument Box.	15--0--0
6.	Cost of drawingsheets	2--8--0
		52. 8-0

The revised figure of Rs.57/- mentioned in my letter dated 27-2-1947 was due to the increase in the price of the Metallic Tape to Rs.20/-.

2. With regard to the honorarium for the staff, the Principal, College of Engineering, Guindy, states that the Assistant Instructor proposed for this course will have sole responsibility for the training of students and as the training will be intensive, his work will be very arduous. As the students are to commence their training at the end of April or the beginning of May the Assistant Instructor will not be able to enjoy the vacation as he will normally do and for similar reasons, he will also be prevented from enjoying the vacation after the completion of the training by about the end of May. In view of this, the Principal considers that the Assistant Instructor should be given an honorarium of Rs.100/-. For similar reasons the Principal has recommended the payment of honorarium of Rs.15/- and 5/- to the Instrument Repairer and the peon. As the present training is for a period of one month to be done during the summer vacation. It is recommended that the honorarium of Rs.120/- for the Assistant Instructor, the Instrument Repairer and the Peon may be sanctioned. In subsequent years, the training will be conducted for 6 months during the academic years and the honourarium will be only Rs.50/- for the Assistant Instructor as ~~on finally~~ originally recommended.

3. I request the favour of very early orders of Government.

for Director of Public Instruction.

ASST. SECRETARY TO GOVERNMENT
20 MAR 1947
EDUCATION AND PUBLIC HEALTH DEPT.

KP.19-3.

19/3

ASST. SECRETARY TO GOVERNMENT
26301
3 APR 1947
EDUCATION AND PUBLIC HEALTH DEPT.

A. 19

Office of the
Director of Public Instruction,
Madras.

POST COPY OF TELEPHONIC MESSAGE DATED THE 1st April 1947.

@@@

From

The Director of Public Instruction,
MADRAS.

To

The Assistant Secretary to Government,
Education and Public Health Department:

SUB:- Presidency College,Madras - Geology students Training in Surveying -

REF:- This office letter RC.No.5274-K2/46 dated 18th March 1947.

Kindly let me know when the orders of Government may be expected as the Summer Vacation has to commence shortly.

for DIRECTOR OF PUBLIC INSTRUCTION.

KAN.2/4

C.F. 32.

In reply, please quote number, date and short title.

_______________ DEPARTMENT.

*Received*_______________ *Registered*_______________

From (Name)

(Designation)

POST BOX_________, (STATION)_______________,

*Telegraphic Address*_______________

To

The

*No.*_________, *dated*_______________19 .

Sir,

ENCLOSURES_______________

____

____

SPARE COPIES_______________

Pl. issue today
GJ
9-4-47

(19) 37

Edu and P.H. Dept

College - Presidency - Improvements to the teaching of Geology - Orders passed.

—

pp 25, 29 & 33 cf.

Letters from the D.P.I No: 5274 K2/46
dy 30.9.46, 27.2.47 and
10.3.47.

Order ~~(Edn)~~ No. 713 Edn dated 9-4-47
MS

The Govt sanction the employment of an addl. Demonstrator in the Geology dept of the Presidency College, Madras, for a period of two years* from 1.7.47 on Rs 80-5-120-10-140. He will draw the Madras House allowance admissible under the rules.

* re-empl two years sanction given in the beginning

(Scale of pay is not mentioned as revised scale has to be adopted & revised scales have not already been given effect to though sanctioned by Govt)

[illegible] (S)

pp 25 cf & 2 nf

2 They ~~Govt~~ approve the proposal of the D.P.I that the system of taking students on instructional tours ~~which was~~ and granting them travelling allowance which was stopped as a measure of retrenchment in 1932 should be revived in respect of ~~Pass and Hons Geology~~ students (Geology) of the BSc and BSc (Hons) classes. Sanction is accorded to the incurring of an expenditure not exceeding Rs 3000/- per year for the purpose.

p. 27 cf

3 They ~~Govt~~ also approve the proposal of the D.P.I that the final year students of the BSc (Hons) class (Geology) should be given survey training in the Eng: College, Guindy, for a period of 6 months with one class on ~~all~~ Saturdays. Sanction is accorded to the incurring of the following expenditure in this connection:-

p 25 cf

Non-recurring

p 29 cf

		Rs
A	Purchase of Scientific instruments at Rs 57/- per student for 16 students	912
	~~Non-recurring~~ Recurring	
	Remuneration to the staff of the Eng: College, Guindy at Rs 50/- for six months	300
	Conveyance allowance to students -	200
	Misc expenses - cost of graph sheet supplied for six months	20

p 25 cf
& p 27 cf

28

4 The Govt also approve the proposal of the D.P.I that the present 4th and 5th year students of the BSc (Hons) class (Geology) should be given survey training in the Eng. College Guindy, for one month in April or May 1947 in lieu of the training referred to in para 3 above. Sanction is accorded to the incurring of an expenditure not exceeding Rs 120/- for payment of remuneration to the staff of the Eng: College who will be in charge of the Survey class.

p 33 CF.

5 The D.P.I is informed that the necessary addl. provision has been made in the Annual Estimate of Expenditure under "37 b - Education - University - Govt Arts Colleges - Men" and ~~[illegible]~~ and under "37 d Education - University - Govt Professional Colleges - B Eng. College" ~~[illegible]~~. ~~above~~.

4/4/47

7/4/47

To
The D.P.I
the A.G (the Fin)
Copy to the Registrar, University of Madras, with reference to letter No: 18845-A/46-8 Edn dy 6.9.46

39.

Government of Madras.
ABSTRACT

COLLEGE - Presidency - Improvements to the teaching of Geology - Orders passed.

-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C

EDUCATION AND PUB. HEALTH DEPARTMENT.

G.O.No.Ms. 713 Edn. Dated the 9th April 1947.

Read:

From the Director of Public Instruction, letters No. 5274. K.2/46 dated 30-9-46, 27-2-47 and 10-3-1947

ORDER:

The Government sanction the employment of an additional Demonstrator in the Geology department of the Presidency College, Madras for a period of two years from 1--7--1947 on Rs. 80-5-120-10-140. He will draw the Madras House Allowance admissible under the rules.

2. They approve the proposal of the Director of Public Instruction that the system of taking students on instructional tours and granting them travelling allowance which was stopped as a measure of retrenchment in 1932 should be revived in respect of students (Geology) of the B.Sc. and B.Sc.(Hons) classes. Sanction is accorded to the incurring of an expenditure not exceeding Rs. 3,000 per year for the purpose.

3. They also approve the proposal of the D.P.I. that the final year students of the B.Sc.(Hons) class (Geology) should be given survey training in the Engineering College, Guindy, for a period of 6 months with one class on Saturdays. Sanction is accorded to the incurring of the following expenditure in this connection:

Non-Recurring:	
Purchase of scientific instruments at Rs. 57/- per student for 16 students.	Rs. 912
Recurring:	
Remuneration to the staff of the Engineering College, Guindy at Rs. 50/- for six months	Rs. 300
Conveyance allowance to students.	Rs. 200
Miscellaneous expenses - cost of graph sheets supplied for six months	Rs. 20

K

4. The Government approve the proposal of the Director of Public Instruction that the present 4th and 5th year students of the B.Sc. (Hons) class (Geology) should be given survey training in the Engineering College, Guindy, for one month in April or May 1947 in lieu of the training referred to in paragraph 3 above. Sanction is accorded to the incurring of an expenditure not exceeding Rs. 120/- for payment of remuneration to the staff of the Engineering College who will be in charge of the Survey Class.

5. The Director of Public Instruction is informed that the necessary additional provision has been made in the Annual Estimate of Expenditure under "37.b. Education - University - Government Arts Colleges - Men", and under "37.d. Education - University - Government Professional Colleges - B. Engineering College."

p.t.o

110

College."

(By order of His Excellency the Governor)

M.V. Subramanian,
Secretary to Government.

To
The Director of Public Instruction, Madras.
The Accountant - General, (through Finance)
Copy to the Registrar, University of Madras, with reference to letter
No. 18845-A/46-8 Edn. dated 6--9--1946.

True copy / Forwarded / By order.

SUPERINTENDENT.

nav/9.4.

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(21)

Development (J) Department.

MINES - Geological Survey of India - Improvement of Geological faculty in the Indian Universities.

Ref: From the Registrar, University of Madras No. A. 2027 dated 2nd April 1946.

To A.S.

The Registrar, University of Madras has forwarded an extract of the Report by Dr. W. D. West, Director, Geological Survey of India on the teaching of Geology in Indian Universities. While discussing in general the system at present obtaining in Indian Universities for the teaching of geology, Dr. West has commented particularly in respect of the instructions given in geology in the Presidency College, Madras. Though he is of the opinion that the course of instruction given at Madras well devised he has suggested certain improvements which he considers necessary. The Registrar of University of Madras while forwarding a copy of it to the E & P.H. wants to know the action which the Government may take on it so that the University may place its views before the Central Govt. The Registrar has sent a copy of his communication to E & P.H. ~~and~~ to this Dept. also for information. ~~Before offering remark on the suggestions made by Dr. West to improve the course of teaching of geology at Madras~~ E & P.H. may be requested to let this Department see what reply they propose to send in the matter.

E & P.H. will presumably let this Dept. see the case in the usual course

[The suggestions of Dr. West at pp 9-10 c.f. are primarily for consideration in E & P.H.]

~~E & P.H. will presumably~~

5/4/46.

5/4/46

18845

ASST. SECRETARY TO GOVERNMENT
5 - APR 1946

ASST. SECRETARY TO GOVERNMENT
5 - APR 1946

Dev. U.O. 22285/46

3-4-46

(A)

The extracts of the report by Dr. West at pp. 3-10 c.f. may be perused. As regards the suggestions made at pp. 9-10 c.f., action can be taken only after obtaining the remarks of the D.P.I. in the matter. Subject to approval a draft Endt. to the D.P.I. and a reply letter to the Regr. are submitted for approval.

6-4-46

6.4.46

BM 6/4/46 S

8/4/46

Issued as Endt. No. 18845 A/46-1 Edn dt 8-4-46

C.No. 2541K/46, From the DPI, R.C.No. 484 K/46 & 115-46

p 1 cf

pp 12-14 cf

Pl. see the Madras Unty. Regr.'s letter on p.1 and the D.P.I.'s remarks on pp.25-26, C.F. The present position in respect of staff and their salary, equipment and course of study in the Presidency College may be explained to the Unty. Remarks on the follg. points are, however, called for.

(1) Appt. of an addl. Demonstrator in the Geological Dept. of the Presy. College: The D.P.I. suggests that this proposal shd. be considered as a Part II Scheme for 1947-48. The suggestion may be agreed to.

'A' p 13 CF

2.7.46

(2) Employment of an Instructor in Surveying in the College to teach Surveying to the B.Sc. (Hons.) (Geology) students,

or

Training the students in Surveying in the College of Engg., Guindy, for ~~6~~ one month~~s~~:

'Z' on p 14

It seems that the second alternative is preferable, as the suggestion of the Presy. College Principal is that the students shd. be trained only for a month. The Dir. may be asked to arrange for this trg. The expenditure involved may not be large.

'B'

2.7.46

(3) T.A. to students who go out on excursions, for 2 tours each year:

T.A. was allowed to students and staff for instructional tours till 1932. It was withdrawn as a measure of economy from that year. Payment of T.A. to members of the staff and establishment of the Presy. College ~~and the students~~ was however revived from 1933 onwards. The Dir. suggests that if the T.A. shd. be allowed for 2 tours to the students (Pass and Hons.), an expenditure of Rs.3,000 will have to be incurred. The proposal will have to be treated

C. 45

(C) on p 36

C

Vide extract at (a)

may be agreed

2.7.46

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(4) Deputation of the present Professor for trg. overseas

In connection with the ~~deputation~~ sending of Govt. servants for higher studies overseas in 1946-47, the D.P.I. reported that it was not possible to send Sri T.N. Muthuswami Ayyar, the Prof., as without him the courses in Geology in the college will have to be stopped. He suggested the sending of 1 Asst. Prof., appointed under the emergency provns. But the Govt. did not accept the proposal as the candidate had not any footing whatever in the dept. The qn. of sending a suitable candidate may be considered again - probably next year if the D.P.I. offer facilities.

'C'

2.7.46

2/ A draft letter to the Regr. explaining the existing position is [illegible]. Orders are solicited on "A","B", and "C" on pp.2-3 ante. Dev., P.W.D. and Fin. may see after issue of letter.

28.6.46

BM 29/6/46 S

2.7.46

pp 33-34 C.F.

Devt. / P.W.D. / Finance

(a i)

Issued as Lr. No. 18845 A/46-5 Edn 2-7-46

Endt. No. 18845 A/46-6 Edn 5-7-46

FIRST ASST. SECRETARY TO GOVERNMENT
Dev. 45696 J/46
6 JUL 1946
DEVELOPMENT DEPARTMENT

Devt. Dept.

To A.S.

This department notes on p 1 above and the letter at pp 33-34 c.f. may be perused. The proposals of the E.P.H. at A B & C on pp 1-3 above ~~may be supported in this department~~ also be perused and the file passed on to P.W.D.

8.7.46

9/7/46

I agree except as regards 'A' on p.1 above. Either the staff needs strengthening or it does not. If it does — the D.P.I. [illegible] it seems pointless to wait for Plan II.

4.

E 2

an additional Demonstrator. The cost involved is not large. It is not anybody's case that the staff is adequate now & needs strengthening only a year later.

11/7/46

P.W.D.

Dev. U.o. 456965/461

P.W.D.

To A.S.

The Ed & P.H. Dept note at pp. 2-3 ante and the letter at pp. 33-34 c.f. may be perused and the file passed on to Finance

16.7.46

17.7.46

19/7/46

Fin E III

ASST. SECRETARY TO GOVERNMENT
M
15 JUL 1946
1321
PUBLIC WORKS DEPARTMENT

PWD U.O. 1321-M/46-1
19.7.46

ASST. SECRETARY TO GOVERNMENT
19 JUL 1946
FINANCE DEPARTMENT

39679 E III

Please see the letter from the Registrar, Madras University on p 1 c.f. forwarding the observations of ~~Mr~~ Dr W. D. West, Director, Geological Survey of India on the teaching of Geology in Indian Universities in general (pp 3-7 c.f.) and the Madras University in particular (pp 9-10 c.f.). Please see also the remarks of D.P.I. on Dr West's observations ~~on pp 13 to 14 c.f.~~ on pp 13-14 c.f., the note of E & P.H. on pp 2-3 above and ~~their~~ reply sent by E & P.H. to the Registrar ~~Andhra~~ ~~Madras~~ University of Madras on pp 19-20 c.f.

A on p2 above

2. As regards the appointment of an additional Demonstrator in the Geological Dept of the Presidency College, Madras according to Dr West's suggestions, E & P.H. accept the proposal of D.P.I. to consider it as a Part II scheme for 1947-8. Dept, however, observe that if the strengthening of the staff is necessary ~~at~~ the appointment of an addl. demonstrator need not wait for another year but may be sanctioned in the current year itself. From the D.P.I.'s remarks at 'A' on p 13 c.f. it will be seen that he did not examine the adequacy or otherwise of the existing staff but proposes to examine it next year. Presumably he feels that the existing staff is not ~~quite~~ inadequate for the present. In the circumstances it is for orders whether this dept may agree to the proposal being brought forward as a Part II scheme for 1947-8.

Note of Dept on p3 above

In any case, unless the addl. staff is urgently necessary, the proposal may be brought forward as a Part II scheme for 47-48

20/8

3. E & P.H. propose that the students of the Geology dept in the Presidency College may be trained in Surveying for one month in the Engineering College, Guindy. The expenditure is not expected to be large. They propose to ask the D.P.I. to arrange for the training. This need not be objected to in this dept. E & P.H. may, however, be requested to get from the D.P.I. an estimate of cost in the first instance.

'B' on p2 above

Ibid

20/8

4. ~~In the case~~ Again with reference to giving T.A. to Geology students ~~for~~ of the Presidency College for 2 ~~tours~~ instructional tours, the expenditure is estimated to be Rs ~~3,3,000~~ 3,000 p.a. E & P.H. ~~however~~, propose to ~~bring~~ treat it as a Part II scheme for 1947-8. The proposal as a whole may be ~~fully~~

C on p2 above

letter of p2 above

5

27

be examined when it is put forward next year as a Part II scheme for 1947-8.

5. The case may be returned to E&P.H.

20/8.

Rs. 168 / 17.8.46

~~Thro C.S.R.~~
~~(Para 4)~~

20/8/46

EPH

ASST. SECRETARY TO GOVT. EDUCATION AND PUBLIC HEALTH DEPT. 2 AUG 1946

Fin. U.O. 39679 Fin-1
20.8.46

47969

E&PH(A)

Finance are agreeable to this Dept's proposals at A, B and C on pp 2-3 ante. While agreeing to proposals 'B' and 'C', Dev. consider that the proposal in 'A', namely the employment of a demonstrator in the Geology Dept of the Presidency College, should be sanctioned in the current year itself. As the employment of the demonstrator is not an immediate necessity and in view of the letter already issued, informing the Regr of Madras University that this question will be considered as a Part II scheme for 1947-48, Dev. may be requested to agree to the proposal at 'A' also. A draft letter to the Regr. and draft memo. to the DPI calling for the information required by Finance at 'P' on p 5 ante, are submitted. Dev. may see ~~the~~ the draft memo. before issue.

X
pp 19-20

B
J. Secy.

B
J. Secy

5/8-46

26.8.46

B.M.
26/8/46

J. Secy

FOURTH ASSISTANT SECRETARY TO DEVELOPMENT DEPT. 28 AUG 1946

Edn U.O. 18845 A/46-7
27-8-46

Devl.

To AS

The previous notes of this dept and the notes of Finance and E.P.H. depts on pp 3-6 above may be perused. For ~~reasons~~ the reasons stated at X above the

---

E.P.H dept request that this dept may agree to their proposal at A on p2 above. No indication has however been given as to what objection there is to the proposal being considered as an urgent one for sanction during the current year itself. The fact that the Registrar has been informed that the proposal will be considered as a Part II Scheme for 1947-48 need not prevent the Govt from sanctioning the additional post, provided ~~they need~~ the staff is urgently ~~urgent~~ necessary. As pointed out by Finance at M on p5 above the D.P.I. does not appear to have examined the adequacy or otherwise of the existing staff. A reconsideration of this dept's views at X on pp 3-4 above does not seem called for. This dept. need not, however, press for acceptance of the views. For orders.

The case may be returned to E.P.H.

The matter need not be pressed.

31.8.46

Dy. L.L.K.
This is primarily a matter for E.P.H. I believe
31.8.46

31.8.46

S
2/9/46

Dev U.O. 62567 J/46-1
3.9.46

ASST. SECRETARY TO GOVERNMENT EDUCATION AND PUBLIC HEALTH DEPT. 4 SEP 1946

51050

E&PH(A)

The drafts may issue.

B
5-9-46

6/9/46

pp 21-22 CF
pp 23-24 CF

[Issued as ~~Memo~~ Letter No 18845 A/46-8 Edn d 6-9-46]
[" Memo " " " 9 " 6-9-46]

pp 25-26 CF

C.No.57682. From the D.P.I. Roc. No.5274 K2/46 dated 30-9-46.

Please see the letters on pages 19-22 and the memo on pages 23-24 c.f. The Director has submitted proposals for improving instruction in Geology in the Presidency College.

pp 25-26

8

~~xmxthexGeologyxDepartmentxofxthe~~

The proposals ~~involve~~ involve

(1) employment of a Demonstrator in the Geology Department of the Presidency College, Madras,

(2) Expenditure on instructional tour of geology students.

(3) training of geology students ~~in the College of Engineering, Guindy~~ in Surveying. in the Engg. College, Guindy.

Item (1):- The existing staff in the Geology Department is one professor, 3 assistant professors and 2 demonstrators. Dr. W.D. West, Director, Geological Survey of India, stressed the need for additional staff in the Department, and it was agreed that an additional demonstrator might be employed, the proposal being considered as a Part II scheme for 1947-48. The ultimate cost per annum is about Rs.1,500.

p 13 cf

p 9 cf

p 6 ante

Item(2):- Please see the note of this Department ~~in~~ under item (3) on page 2 ante. The proposal may be ~~accepted~~ treated as a Part II scheme for 1947-48. The expenditure involved is Rs.3,000 per annum.

Item (3):- Finance wanted to have an estimate of cost of the proposal before agreeing to it. The expenditure is estimated at Rs.920/- per annum. It seems reasonable that students are provided with Mathematical instruments at Government cost. The estimate may, therefore, be accepted. This item also may be included in the Part II scheme.

p 5 ante

p 25 cf

In a recent U.O. note the Finance Department has stated that Part II schemes should be restricted to those that are contemplated in the ~~fixms~~ Five-year post war development plan or that can be treated as a modification of schemes included in the five-year plan and that schemes outside the plan should be proposed only if they are required in connection with Grow More Food Campaign or are fully remunerative or are absolutely essential for the proper running of Departments. The present proposal does not satisfy any of the criteria referred to above. For orders whether proposals should go forward as a Part II scheme.

(2)

ASSISTANT SECY.
55692
15 OCT 46
FINANCE DEPARTMENT

As related to staff, & in structural matters, I think it may be kept under the last category — & may go forward.

[illegible] 12/10/46

[illegible]

Emo 18845 A/46-10
14-10-46

9

22

Finance(E-III).

Part II scheme for 1947-8.

(Previous note of this department on pp.4-6 above).

At the instance of the Geological Survey Dept of India, it is proposed to improve the existing course of study in Geology for the B.Sc. and B.Sc(Hons.) classes in the Presidency College, Madras, so as to facilitate the recruitment of qualified personnel to the Geological Survey of Indi The improvement proposed is intended to make adequate provision for staff, equipment, excursion and research, and to obviate the post graduate pre-G.S.I. training now given by the Geological Department of the Govt. of India for its new recruits. The proposal involves--

p 8 above

Cf para 1 on p 30

(1) The employment of an addl. Demonstrator in Geology on Rs 70--100 in the Presidency College, Madras

(2) An expenditure of Rs 3,000 per annum on the instructional tours of the students(Geology) of the B.Sc. & B.Sc(Hons classes

(3) The training of the Geology students in surveying in the Engineering College, Guindy. (Extra Cost Rs 720 pa)

p 8 above

Av 84.3
MHA 15
DA 18
DAP 4
126.3 pm or (a)
1516 pa
3000
320
4836 d
Rs 400 non recurring
p 26 cf

The extra cost involved is Rs 4836/- per annum recurring and Rs 400/- non-recurring.

Item (1) above. There is at present B.Sc. and B.Sc(Hons.) courses in Geology in the Presidency College, Madras and the staff in the Geology Department consists of 1 Professor, 3 Asst. Professors and 2 Demonstrators, including 1 Asst. Professor sanctioned after the visit of Dr.West of the Geological Survey of India. Beyond the statement that an additional Demonstrator is needed, the D.P.I. has not explained the necessity with reference to hours of lecture, practical classes and demonstrations. It may be mentioned incidentally that the Cabinet Salaries Committee considered that the staff of the Education Department is lightly worked. If special lectures and practical classes are needed, the appropriate course is to address the Geological Survey of India to arrange for such lectures and classes by their experts, if possible. In this view, there seems to be no

Cf A on p 13 cf

This was not expressed in the Report but it was the Committee's general view.

20/10

See '2' at 9 cf. We need not object to an addl Demonstrator, if the suggestions at 9, 10 cf are going to be carried out!

16/11

18845-A
4/12/46

E/11

strong case for the appointment of an additional Demonstrator which may be disallowed.

Items (2) and (3) in para 1 above. May be accepted.

As the expenditure is necessitated for the improvement of the present course of study which mainly benefits the students, E & P.H. may be requested to consider whether the extra cost cannot be recovered by way of levy of special fees.

This need not be taken up in an individual case like this.

20/11

E & P.H. consider that the improvements are absolutely essential for the efficient working of the Geology Department. In the circumstances and as the extra cost involved is not large, this department may agree to the proposal going forward as a Part II scheme. E & P.H. may be requested to prepare the necessary note on the scheme.

20/11

19-11-46

20/11/46

E.H. Fin u.o. 55692 Edn-1
20-11-46

EPH(A)

ASST. SECRETARY TO GOVERNMENT
71113
21 NOV 1946
EDUCATION AND PUBLIC HEALTH DEPT.

Part II Scheme - 1947-48.

The proposals are:-

(1) employment of a Demonstrator in the Geology Dept of the Presidency College, Madras.

(2) Expr on instructional tour of Geology students

(3) Training of Geology students in Surveying in the College of Engg, Guindy.

The extra cost involved is Rs 5036 per annum recurring and Rs 400 non-recurring. Finance have accepted the proposals.

67015 Edn

SECRETARY TO GOVERNMENT
10 DEC 1946
FINANCE DEPARTMENT

For orders as to circulation to H.M.(Edn) and H.F.M.

ES
2/12/46

B.M.
3/12/46

S/H.M.
4/12

H.M.(Edn)

H.F.M.

TSA
4-12-46

JP 5/12/46

It is presumed that Fin. have agreed to an expr of Rs 200 on Conveyance allowance to students vide item 3 in para 2 on p25 cf. A draft Part II Note is submitted. It may be sent to Fin. for ~~adding their note~~ acceptance.

SECRETARY, EDN. AND P.H. DEPT.
1 DEC 1946
GOVERNMENT OF MADRAS

B.M.
3/12/46

Com u.o. 18845 A/46-11
19-12-46

11

A

20

Re: Fin note at p.29 - 10 above

The draft Part II scheme note may be accepted as amended in pencil; expenditure connected with training in Surveying is shown under 37. d. Edn - Universities - Professional colleges - B. Engineering college.

Fin u.o.
7015 Edn-1
10.12.46

Thru' BEW
NS
10.12.46

10.12.46

10/12/46

ESBA

ASST. SECRETARY TO GOVERNMENT
7649
11 DEC 1946
EDUCATION AND PUBLIC HEALTH DEPT.

Send 2 copies to Finance with corrections carried out.

BM
11/12/46

p29 & 33 cf. G.O. No. 16944. Letters from the D.P.I. 5274 K2/46 d/27.2.47 and 18.3.47

—.

The proposal has been approved and necessary provision has been made for it in the budget for 1947-8.

(A)

p25 cf. In his letter d/ 30-9-46. the D.P.I. proposed a provision of Rs 400 towards the purchase of scientific instruments at Rs 50 for 8 students. In a subsequent letter d/ 27.2.47 he says that the cost of the instruments for each student should be raised to Rs 57 and that instruments have to be purchased for 16 students. The total expenditure on instruments will come to Rs 912. This may be sanctioned.

50 × 8 = 400

p29 cf.

57 × 16 = 912

p29 cf. The Director's proposals to ~~curtail~~ compress the 6 months survey training course ~~for students~~ for Geology students in the final year class to one month ~~from~~ this year, to allow the 4th year students also to join the survey class and to allow remuneration at the staff of the college at the rates mentioned on pag also be approved.

A draft

176·58 D I

It may be sent to the Finance dept for acceptance

4/4/47

BM
7/4/47

S / Finance

Recd
7/4/47

(Fin: noted last on p11 above)

The variations now made in the draft order on the further report of DPI on pages 29 CF and the original proposals as accepted as Part II scheme for 1947-8 are ~~also~~ set out in para 4 of draft & portion A of para 3 of the draft. What is newly added is that a one-month's training will be given to the 4th & 5th year students of the BSc (Hons) class (Geology) of the Presidency College also for the reason given in para 2, p29CF; this involves an addl expenditure of Rs120 being remuneration for a month to the staff of the Engineering college who will be in charge of the survey class. ~~The other~~ The other variation is that instead of 8 students being trained every year 16 are proposed and the cost of equipment of each student has been increased from Rs50 to Rs57). - see pages 29-33 CF.

This dept may agree to the modifications proposed.

The draft order may be accepted as slightly amended in pencil.

E. dn v.o 18845 A/61-15
8-4-47

8 - APR 1947
FINANCE DEPARTMENT

21447

27472

9/4

MD
9 4 47

E-PH(A)

DS
EH

The amendment suggested by Fin. may be accepted. The draft ~~copy~~ order may issue, ~~as amended by Fin~~.

9/4/47

ES
9-4-47

9/4/47

Thro' ~~ES~~
Asst (E4A)
9/4/47.

Fin. u.o.
21447 E III 7
9/4/47.

(5)8818|52

I 85.9.21