

Government of Madras.

EDUCATIONAL DEPARTMENT.

Recd.

Regd.

} 1913.

Enclosures

Spare copies

G.O. No. 1058, 18th November 1913.

Affiliation.

Sanctioning the further — to the University of Madras of the American College, Madura, in Group (ii-A)—Physical Science—of the B.A. Degree courses.

2

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GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

READ—the following papers:—

I

Letter—from W. H. JAMES, Esq., B.Sc., Acting Registrar, University of Madras.
To—the Secretary to Government, Educational Department.
Dated—Senate House, the 31st October 1913.
No.—4894.

I have the honour, by direction of the Syndicate, to submit, under Regulation 376 (d), for disposal by His Excellency the Governor-in-Council, the accompanying application from the Principal, American College, Madura, for further affiliation of the college in Group (ii-A)—Physical Science—of the B.A. Degree courses, together with copies of the Proceedings of the Syndicate and the Senate on the subject, and of the report submitted by the Syndicate to the Senate.

At its adjourned meeting held on the 18th October 1913, the Senate recorded its opinion that the affiliation may be granted by Government.

ENCLOSURES.

UNIVERSITY OF MADRAS.

Report of the Syndicate upon the application from the American College, Madura, for further affiliation in Group (ii-A)—Physical Science—of the B.A. Degree courses.
 The Syndicate reports the following correspondence relative to this application:—

(i)

Letter—from the Principal, the American College, Madura.
To—the Registrar of the University of Madras.
Dated—the 19th September 1912.

With reference to my letter, dated 13th September, applying for affiliation of the American College, Madura, in Group (v)—History and Economics—of the B.A. Degree (Pass) Course, to take effect from July 1913, I have the honour to state that, in reply to an application sent in to the Director of Public Instruction asking for a grant towards the cost of the new science hall, I have received the following answer:—

“The Correspondent, American Mission College, Madura, should be informed that the application cannot, at present, be entertained. It presupposes affiliation as a first-grade college, which is entirely a matter for the University to decide. The Correspondent, therefore, should first address the Syndicate stating what he is prepared to do with a view to securing the desired affiliation. If the Syndicate receive his application favourably, the Director will be prepared to consider the recommendation to Government of a grant towards the cost of the laboratory.”

I have the honour, therefore, to request that you will be good enough to include in my application of the 13th instant, also application for affiliation in Group (ii-A)—Physical Science—of the Madras University (Pass) Course, to take effect from July 1914.

With reference to this, as intimated in my letter of 13th September, the appointment of a science graduate to the staff of the college has been reported from America. The name of the appointee is Edgar A. Flint and his college career as reported out is as follows:—

Graduated B.Sc. at Rochester University in 1909. During the first three years of college, he majored in physics, taking all the courses given to students majoring in that subject; during the fourth year of his college course, he majored in chemistry, graduating therefore with chemistry as his major, his work including both organic and inorganic chemistry. His other science included general geology and mineralogy, general biology and

elementary zoology. After graduation, he took a year of graduate work at Columbia University, New York City, taking organic analysis (major) and advanced organic chemistry as first minor, and a laboratory course in bio-chemistry as second minor, taking his M.A. in chemistry in 1910.

At Rochester he was employed as assistant in chemistry for one year, and at Columbia as assistant in organic and quantitative analysis. Since graduation, he has been engaged for three months in analytical work as Chemist for Proctor and Gamble Company, New York City, then as research chemist in the U.S. Department of Agriculture, closely related to bacteriology.

It is expected that he will spend most of the year 1912-13 at one of the English Universities and join the staff of the American College about July 1913, to assist in the selection and instalment of apparatus needed for B.A. work.

Preliminary copies of the plans of the proposed new building are sent with this under separate cover together with a list showing the area of rooms and the maximum number of students which it is proposed to accommodate therein.

In view of the Director's statement that, “if the Syndicate receive his (the Correspondent's) application favourably the Director will be prepared to consider the recommendation to Government of a grant towards the cost of the laboratory,” I have the honour to request that you will be good enough to let me have a reply to this at as early a date as possible.

(ii)

Letter—from the Registrar of the University of Madras.
To—the Principal, the American College, Madura.
Dated—the 5th October 1912.
No.—3787.

With reference to your letters, dated 13th and 19th September 1912, applying for the affiliation of the college in Groups (v) and (ii-A) respectively in the B.A. Degree courses, I have the honour to inform you that the Syndicate has appointed Mr. E. W. Middlemast, the Rev. E. M. Macphail and Mr. J. G. Tait as a commission to conduct the local inquiry required under section 21 (2) (a) of the Indian Universities Act, 1904, with respect to the first of these applications. The Syndicate will await the report of this commission before arranging for the inquiry in connection with the second application.

(iii)

Letter—from the Principal, the American College, Madura.
To—the Registrar of the University of Madras.
Dated—the 12th May 1913.

With reference to my communication to you, dated 19th September 1912, applying for the affiliation of the American College with the Madras University in Group (ii-A)—Physical Science—(Pass) course, and your reply No. 3787, dated 5th October 1912, intimating that the Syndicate “will await the report of commission appointed to make local inquiry with reference to the affiliation of the college in history and economics before arranging for the inquiry in connection with the affiliation in physical science,” I have the honour to state that on the receipt of information from you indicating that the Senate of the Madras University “had recorded its opinion that the college may be affiliated in history and economics,” I sent to the Director of Public Instruction plans and estimates for the construction of a science hall asking for a grant towards the cost of the completion of the same.

In reply, the Director in his Proceedings Ref. on Cur. No. 2563, dated 6th May 1913, informs me “that the question of building grant cannot be taken up until the result of the application for the affiliation of the college in science is known.”

This will necessarily cause another long delay in beginning the work for the science hall.

I have the honour, therefore, to request that you will be good enough to bring my application for the affiliation of the American College in physical science before the University at the very earliest convenient date, with a request that the question be decided as early as possible.

If the affiliation is granted it will not now be possible for the college to start B.A. science work before July 1915, on account of the delay in starting the building.

(iv)

Letter—from the Manager-in-charge, Office of the Registrar, University of Madras.
To—the Principal, the American College, Madura.
Dated—the 28th July 1913.
No.—3481.

With reference to your applications, dated 19th September 1912, and 12th May 1913, for the affiliation of your college in Group (ii-A) of the B.A. Degree courses, I have the honour, by direction, to inform you that the Syndicate has resolved that a local inquiry be made under section 21 (2) of the Indian Universities Act, 1904, and has invited the Rev. A. Moffat, M.A., B.Sc., Professor of Physical Science, in the Madras Christian College, to conduct the inquiry. Mr. Moffat will, it is presumed, communicate to you the date on which he will arrange to visit the college.

(v)

Letter—from the Manager-in-charge, Office of the Registrar, University of Madras.
To—the Rev. A. MOFFAT, M.A., B.Sc., Professor of Physical Science, Christian College, Madras.
Dated—the 28th July 1913.
No.—3482.

An application has been received from the Principal of the American College, Madura, for the affiliation of the college in Group (ii-A)—Physical Science—of the B.A. Degree courses, and I am directed by the Syndicate to invite you to be so good as to conduct the local inquiry under section 21 (2) of the Indian Universities Act, 1904, with special reference to the need in Madura of the teaching of physical science for the B.A. Degree courses of study.

The affiliation application and connected papers are herewith sent in original for your perusal.

It is presumed you will communicate to the Principal of the college the date on which you will arrange to visit the college.

(vi)

Letter—from Rev. A. MOFFAT, M.A., B.Sc., Professor of Physical Science, Christian College, Madras.
To—the Registrar, University of Madras.
Dated—the 27th August 1913.

With reference to your letter No. 3482, dated 28th July 1913, inviting me to conduct a local inquiry in connection with an application for the affiliation of the American College, Madura, in Group (ii-A) of the courses of study for the B.A. Degree, I have the honour to report that I visited the college on Saturday, 23rd August, and had a further interview with the Principal and the Professor of Physical Science on 25th August.

The college was fully reported on last year with reference to Regulation 375 in connection with an application for affiliation in Group (v), and I have nothing to add regarding management, etc. The hostel is being considerably enlarged.

With reference to the sections of the regulation which bear on the present application, I beg to report as follows:—

(b) *Staff*.—The present members of the staff in physical science are—

(1) Mr. Edgar A. Flint, M.A., B.Sc.

Mr. Flint made a special study of physics and chemistry at Rochester and Columbia Universities, and is a graduate of these Universities. He also took advanced courses in electro-magnetic induction, heat and mechanics at Oxford University.

(2) Mr. N. Rāmaswāmi Ayyar, B.A., L.T.

(3) Mr. P. Rāmaswāmi Raju, B.A.

Mr. Rāmaswāmi Ayyar and Mr. Rāmaswāmi Raju are Madras graduates in Branch II-A.

(4) & (5) Two attenders.

It is proposed to add the following to the staff:—

(1) A Madras graduate who has taken the M.A. Degree in Branch II-A.

(2) & (3) Two Madras graduates in Group (ii-B).

- (4) A mechanic in charge of the workshop.
- (5) An attender in charge of the gas and electric plants.
- (6) to (9) Four additional attenders.

(c) & (e). At present the Intermediate classes in physics and chemistry are taught in the main building of the college, but it is intended to provide for both the Intermediate and B.A. Science teaching in a new block for which plans have been prepared and submitted by the college with its application for affiliation. The plans were discussed with the Principal and Mr. Flint, and a re-arrangement of some of the rooms was proposed and agreed to. These plans now provide the following accommodation:—

Physics.

- (1) Intermediate lecture room, 30' × 25'.
- (2) B.A. lecture room, 25' × 19'.
- (3) Preparation room, 25' × 10'.
- (4) Intermediate laboratory, 50' × 30'.
- (5) General measurements laboratory, 33' × 30'.
- (6) Heat laboratory, 30' × 25'.
- (7) Light laboratory, 30' × 10'.
- (8) Electricity laboratory, 33' × 30'.
- (9) Balance room, 19' × 10'.

Chemistry.

- (1) Intermediate lecture room, 30' × 25'.
- (2) B.A. lecture room, 22' × 20'.
- (3) Store room, 18' × 12'.
- (4) Apparatus room, 12' × 9'.
- (5) Apparatus room, 9' × 9'.
- (6) Intermediate laboratory, 48' × 30'.
- (7) Balance room for laboratory, 21' × 9'.
- (8) B.A. laboratory, 30' × 27'.
- (9) Balance room for laboratory, 18' × 9'.
- (10) Dark room, 18' × 10'.
- (11) Store room in basement, 46' × 28'.

There are also a Professor's room, 12' × 10', two Assistants' rooms, 21' × 13' and 10' × 10' and a library, 21' × 16'.

Gas plant.

A De Laitte oil-gas plant, supplied by Messrs. Beaton & Co., Bombay, was installed last year. The gas-holders have a capacity of 1,200 cubic feet.

Electric plant.

An estimate was submitted for the following proposed equipment:—

- (1) Dynamo (D.C. shunt wound), 100 to 140 volts, 30 amps., 2½ K.W.
- (2) Oil-engine, 8 h.p.
- (3) Sixty-five accumulators, 33-35 amps.
- (4) Switch board and accessories.

Water-supply.

Water is to be pumped up to tanks by a pump driven by an electric motor. It was pointed out that provision should be made by means of a tank at a higher level for the supply of high pressure water at various points in the laboratories, and this was agreed to.

Workshop.

It is proposed to equip the workshop with a screw-cutting lathe, a planning machine, a circular saw, a high speed drill and a supply of tools.

A separate building will be erected to accommodate the workshop, the engine and dynamo, and the accumulators.

Apparatus.—A provisional list of apparatus was submitted. This had evidently been drawn up with reference to the laboratories and provided a very satisfactory initial equipment for them. There was little in the way of lecture apparatus on the list, but it was stated that it was the intention of the college to provide it. The Principal estimates that after the completion of the building the college will have on hand Rs. 60,000 for its equipment. This should be ample for the purpose.

(d) *Library*.—A list of about 300 books in physics and chemistry was submitted. This includes most of the recently published text-books and treatises, some of which go far beyond the B.A. standard, but will be found useful for reference.

(h) *Need for affiliation.*—This question was dealt with by the Affiliation Committee of the Syndicate in its report, dated 13th July 1913. With regard to it, I may say that there is no other first-grade college in the Madura, Ramnad and Tinnevely districts, and that the number of students in Group I of the Intermediate courses in the colleges of these districts is as follows :—

	First year.	Second year.	Total.
Hindu College, Tinnevely	41	51	92
Madura College	29	36	65
American College, Madura	23	19	42
			199

The Principal considers that of these students ten might be expected to take Group (ii-A) of the B.A. courses at the American College. This seems a reasonable estimate and would not involve injurious competition.

I am of opinion that the affiliation applied for may be granted.

The Syndicate considered the above local inquiry report at its meeting held on 2nd September 1913 and resolved to recommend the Senate to record its opinion that the application for affiliation may be granted by Government.

(2)

UNIVERSITY OF MADRAS.

Extract from the minutes of the meeting of the Syndicate, dated 22nd July 1913.

Considered again applications, dated 19th September 1912, and 12th May 1913, from the Principal, American College, Madura, for the affiliation of the college in Group (ii-A) of the B.A. Degree courses—

A. 1577 of 1912 and A. 815 of 1913.

together with the reports thereon of the Affiliation Committee of the Syndicate, dated 17th March and 13th July 1913—

A. 523 and 1045.

Resolved that a local inquiry be made under section 21 (2) of the Indian Universities Act, 1904, and that the Rev. A. Moffat be invited to conduct the inquiry, with special reference to the need in Madura of the teaching of physical science for the B.A. Degree courses of study.

(3)

Extract from the minutes of the meeting of the Syndicate, dated 2nd September 1913.

Considered again the application of the Principal, American College, Madura, for the further affiliation of the college in Group (ii-A) of the B.A. Degree courses—

A. 1577 of 1912.

together with the local inquiry report conducted by the Rev. A. Moffat, recommending the affiliation

A. 1378.

Resolved that it be a recommendation to the Senate that the application for the further affiliation of the American College, Madura, in Group (ii-A) of the B.A. Degree courses may be granted by Government.

(4)

Extract from the minutes of the meeting of the Senate, dated 18th October 1913.

Proposed by the Rev. J. D. W. Sewell, and seconded by Mr. J. P. Cotelingam —

“That the Senate record its opinion that the application from the American College, Madura, for further affiliation in Group (ii-A)—Physical Science—of the B.A. Degree courses may be granted by Government.”

Messrs. G. A. Natēsan and S. Srinivāsa Ayyangar having spoken the proposition was put to the meeting and carried.

Order—No. 1058, Educational, dated 18th November 1913.

Under section 21, sub-section (4) of the Indian Universities Act, 1904, the Governor in Council is pleased to sanction the further affiliation to the University of Madras of the American College, Madura, in Group (ii-A)—Physical Science—of the B.A. Degree courses.

(True Extract.)

W. FRANCIS,
Ag. Secretary to Government.

To the Registrar, Madras University.
“ Director of Public Instruction.
“ Superintendent, Government Press,
for publication in the Gazette (order only).
Editors' Table (order only).

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O. No. 1058, EDUCATIONAL,
DATED 18TH NOVEMBER 1913.

[SUBJECT.—*Further affiliation of the American College, Madura.*]

From the Registrar, Madras University, dated 31st October 1913, No. 4894.

The papers may in the first instance be referred u. o. to the Director of Public Instruction for remarks.

P.R.—3-11-13.

C. RAMANUJACHARI—6-11-13.

C. S. ANANTARAMA AYYAR—7-11-13.

To the Director of Public Instruction.

OFFICE OF THE DIRECTOR OF PUBLIC INSTRUCTION.

I have nothing to urge against approval.

A. G. BOURNE—8-11-13.

EDUCATIONAL DEPARTMENT.

A draft order is submitted for approval.

P.R.—12-11-13.

C. RAMANUJACHARI—16-11-13.

Approved.

W. FRANCIS—17-11-13.

[G.O. No. 1058, Educational, dated 18th November 1913.]

READ AGAIN G.O. No., dated 191

” ” ” ” ” 191

READ ALSO:—

C.No. 3329, From the Registrar, University of No. 4894, dated 31. 10. 1913.
Madras.

[illegible]

" " " " " " " " [9]

ORDER.

No. 10583P, dated 18. 11. 1913

Ph

Apr 7/4 in 2nd
first

ET (order only)

Under Section 21, Sub-Section (4) of the Indian Universities Act, 1904, The Governor in Council is pleased to sanction the further affiliation to the University of Madras of the American College, Madura, in Group (ii-A) - Physical Science - of the B.A. degree course.

$\frac{AD}{12.11.13}$
 $\frac{CX}{16.11.13}$

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The Registrar, Madras University

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(20)

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URGENT (a).

EDUCATIONAL
LEGISLATIVE DEPARTMENT.

Current No., dated.....190 ..

G.O., No. 1058 dated18-11-1903.

Number of MS. pages sent { Correspondence including order or orders
(b)
Notes.

Docket. Affiliation Sanctioning Authority
The University of Madras, after
American College, Madras, in
Group (II) A. Physical Science - after
Boddeya Course.

Number (c) of copies required when struck off (not including
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.....Supdt.	Supdt.	for Supdt.

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