

Home (1919) Department.

Education

Ordinary SERIES.

G.O. No. 410.

DATED 2-4-19

INDEXED

[Despatch Abstract.]

Affiliation

Sanctioning the further ----- to the University of Madras, of the Women's Christian College, Madras in Groups (i) and (ii) of the Intermediate courses and group (iii-A) B.A. of the B.A. Degree courses.

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UNIVERSITY OF MADRAS

No. 1872

SENATE HOUSE,

17 MAR 1919

Enclosures.

FROM

FRANCIS DEWSBURY, Esq., B.A., LL.B.,

Registrar, University of Madras.



To

The Secretary to Government,

Home (Education) Department.

Sir,

I have the honour, by direction of the Syndicate, to submit, under Regulation 5(d) of Chapter XIV of the revised Regulations for disposal by H. E. the Governor in Council, the accompanying application from the Secretary to the Council of the Women's Christian College, Madras, for the further affiliation of the college in Groups i and ii of the Intermediate courses, and Group (iii-A) - Botany 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 meeting held on the 7th March 1919 the Senate recorded its opinion that the affiliation may be granted by the Government.

I have the honour to be,

Sir,

Your most obedient servant,

Francis Dewsbury
Registrar.

University of Madras

Report of the Syndicate upon the application from the Secretary to the Council of the Women's Christian College, Madras, for the further affiliation of the College to Groups i and ii of the Intermediate Courses and Group (iii A)—Botany of the B.A. Degree courses

The Syndicate reports the following correspondence relative to this application.

Letter, dated November 27 1918, from the Hon'ble Rev. G. Pittendrigh, M.A.,
Secretary of the College Council of the Women's Christian College,
Madras, to the Registrar, University of Madras

I have the honour to apply, on behalf of the Council of the Women's Christian College, Madras, that the Women's Christian College may be affiliated to the University of Madras in Group i (Mathematics, Physics and Chemistry) and Group ii (Physics, Chemistry and Natural Science) of the Intermediate course in Arts and in Group iii (Botany as the Main Subject and Zoology as the Subsidiary Subject) of the B.A. course.

Affiliation in Groups i and ii of the Intermediate course is sought on the ground that a large and increasing number of girls desire on leaving school to prepare for entering on a medical training by taking Group ii of the Intermediate course. It is highly desirable that the number of fully qualified medical women in India should be greatly increased. It is also essential for the development of the teaching of Science and Mathematics in girls' high schools that a large number of well-qualified women teachers should be educated and trained by preparing for Groups i and ii of the Intermediate course. There is at present in South India no women's college teaching its students the subjects included in Groups i and ii of the Intermediate course.

It is hoped that a certain number of women will qualify themselves for responsible positions in the Science Departments of schools and colleges by taking the B.A. Degree in Science. At present no women's college prepares its students for this; and there are serious objections to the continuance of the practice of women students attending the science courses in men's colleges. They would profit more by carrying on their studies in the laboratories and class rooms of their own college. Affiliation is sought at present only in Group (iii) of the B.A. course; but, the Management hopes to be able to apply later for affiliation in other science subjects.

The college has already been affiliated to the University as competent to prepare students for the English part and the Optional subjects included in Group iii (Histories, Logic and Vernaculars) of the Intermediate course and the English Division and in Groups (iv) and (v) of the B.A. course. So, it is not necessary, I think, to give in this letter a detailed statement regarding the management, its resources, the general staff, etc. I shall, therefore, give in this letter only a brief statement; but, of course, I, as also the Principal, will at all times be glad to furnish any additional information which may be required on any specific matter.

The college is under the ultimate control of a Board of Governors consisting mainly of the representatives of six British and six American Missionary bodies which have agreed to support the college. This Board of Governors meets in two sections, one in Great Britain and the other in America.

The management of the college in India is vested in the College Council which consists mainly of the representatives in India of the Co-operating missionary bodies. The Principal and the Vice Principal are ex-officio members of this Council and the Professors of the college are represented in the Council by two of their number (other than the Principal and the Vice-Principal). The internal management of the college is vested in the Senatus consisting of all the resident professors of the college. The constitution of the college has not yet been formally registered; but it is proposed to have the college incorporated as a 'Company' under the Indian Company's Act of 1913. A copy of the Memorandum and Articles of Association which are intended to be filed with the Registrar of Joint Stock Companies is enclosed.

Teaching staff—The teaching staff of the college consists of (1) European and American Professors with high University qualifications recruited from Great Britain and America, (2) Graduates of Indian Universities selected in India and (3) Pundits for the vernaculars. A detailed statement of the conditions of service of the Professors has been already sent to you. I shall send you another copy on hearing from you, if it is required.

The members of the teaching staff who are in charge of the Science Department of this college are:—(1) Miss Edith M. Coon, M.A., Mount Holyoke College, U.S.A., who has had five years' teaching experience in the United States. She is the Vice-Principal and Professor of Mathematics and Physics. (2) Miss Mabell E. Diell, M.A. (University of Illinois, U.S.A.), with five years' teaching experience in U.S.A., Assistant in Chemistry and Natural Science. (3) Miss K. Cornelius, B.A. (U.S.A.), Assistant in Chemistry. (4) Mr. S. N. Chandrasekharan, B.A. (University of Madras), Assistant in Botany. (5) K. Bhadrappah (passed the Natural Science part of the Intermediate Examination of the Madras University), student-Assistant. (6) A lady graduate of the Allahabad University (B.Sc. First Class), who is expected to join the college shortly as an assistant for teaching Zoology.

The college is situated in its own spacious grounds in College Road, Nungambakam, Madras. The building is well lit and ventilated and affords adequate accommodation for the students taught in it. Provision has already been made for the residence in the college of students not residing with their parents and guardians. In fact most of the students of the college are resident students and live in the college compound under the supervision of a full-timed British Superintendent of Residence.

Due provision has been made for a library. A copy of the list of books in the library relating to Mathematics and Science subjects and also a copy of the books ordered on these subjects will be sent to you very shortly.

Provision has been made for accommodating sixteen students in the Physics and Chemistry laboratories. The following rooms provide accommodation in Physics:—

(1) Lecture room and laboratory	... 26 ft. x 20 ft.
(2) Apparatus and Work room	... 15 ft. x 12 ft.
(3) Dark room	... 12 ft. x 6½ ft.

The lecture room and laboratory is equipped with a lecture table, 10 ft. x 3 ft., provided with gas and water, lecture chairs, a lecture table, a blackboard, two student tables, 8 ft. x 4 ft., five smaller tables, stools, shelves for balances, one apparatus almirah and wall sink. The room is well lighted and ventilated. It is planned to accommodate sixteen students in each Intermediate class.

The apparatus and work room contains two apparatus almirahs, two tables and a wall sink. In the dark room is a table fitted with gas.

Mathematics is taught in the Physics lecture room. The equipment consists at present of blackboard, ruler, compasses, t-squares set-squares and protractor. A blackboard ruled for graph work has been ordered and it is proposed to order models of geometric solids and their sections.

The Chemistry rooms are in the east wing of the main building on the second floor. The main room consists of a room 26 ft. x 20 ft. with two windows and a door to the north and two windows and a door to the south. The lecture table 4 ft. x 12 ft. is at the west end of the room. This has two cupboards at both the ends with sliding glass doors to the west and east and has been fitted with two gas taps. The table has two sinks, two three-way water taps and two two-way taps. In the table are drawers for storing apparatus. There are two student tables, each with two sinks and two three-way water taps and eight two-way gas taps.

The middle table is 4½ ft. x 14 ft. and has six sets of drawers and cupboards on either side. The other one is 4 ft. x 9 ft. and has five sets of drawers and cupboards.

The end room is smaller and is used for a store room. There are six almirahs, a supply table with drawers and lockers and shelves for keeping solutions. There are four balance shelves in the small room and two in the large room.

The gas for the Physics and Chemistry laboratories is supplied by the De Laitte Gas Engine. It is small and is placed on the verandah outside the Chemistry room. The petrol is vapourised by means of fans which are run by means of pulleys. The water required is supplied from a tank in the roof.

The Intermediate Biology room is 26 ft. x 20 ft. and is situated in the west wing of the main building on the second floor. There are two glass doors and a window to the north and two windows and one door to the south. The south-west corner is partitioned off for a store and work room. The eastern corner is used for lectures. There are three tables at the north door and windows. There are museum cases and apparatus almirahs,

skeleton almirah and a chest of lockers and two show cases. There is a verandah to the north and south. The one to the south has a cement table and running water. There are convenient for Plant Physiology.

The Natural Science Room for the B.A. class is a small one but well lighted and has two doors and two windows. There are two large museum cases and one smaller one for the Zoology and one for Botany specimens. There are two book cases and two tables for students and a table for the Professors. The room has a sink with running water. There is a large verandah with running water and it is a suitable place for growing plants for Plant Physiology. Besides this room, there is a small room which can be used, if necessary, as a lecture room. Provision has been made to accommodate four students.

Lists of apparatus, chemicals, etc., which are in the Physical and Natural Science laboratories as also lists of apparatus ordered but not yet arrived are under preparation and will be sent to you on Monday.

The college has a guaranteed income of about Rs. 35,000 a year provided by the Management in addition to the special and teaching grants made to the college by Government.

The fees charged in this college are half the standard rates.

On behalf of the Management I hereby agree that after affiliation has been granted any transference of Management and all changes in the teaching staff shall forthwith be reported to the Syndicate.

I shall be happy to furnish any information on any matter which may be required by the Syndicate.

Letter, No. 8894, dated December 18, 1918, from the Registrar, University of Madras, to Messrs. J. R. Henderson, H. O. Kershaw, P. F. Fyson, K. R. Ramaswami Aiyangar and M. C. S. Anantapadmanabha Rao.

An application has been received from the Secretary to the Council of the Women's Christian College, Madras, for the further affiliation of the College in Groups i and ii of the Intermediate and Group (iii-A) of the B.A. Degree courses, and I am directed by the Syndicate to inform you that you have been appointed a Commission to conduct a local inquiry at the college under section 21 (2) (a) of the Indian Universities Act, 1904. As the college is already affiliated to the University the scope of your enquiry should be limited to the provision made by the college for the teaching of the subjects in which further affiliation is now sought.

It is presumed that you will be willing to undertake the duty. I have to request that your report should be submitted to the Syndicate without being disclosed to the authorities of the college.

The papers in original are forwarded to Dr. J. R. Henderson, who is requested to act as Convener of the Commission, and to fix the date of the visit of the Commission to the college in consultation with the Principal of the college.

Letter No. 8895, dated December 18, 1918, from the Registrar, University of Madras, to the Hon'ble the Rev. G. Pittendrigh, M.A., Secretary to the Women's Christian College Council.

With reference to your letter, dated November 27, 1918, applying for the further affiliation to the University of the Women's Christian College, Madras, in Groups i and ii of the Intermediate and in Group (iii-A) of the B.A. Degree courses, I have the honour, by direction, to inform you that the Syndicate has appointed a Commission composed of the following members to conduct a local inquiry at the college under section 21 (2) (a) of the Indian Universities Act, 1904:—

J. R. Henderson, Esq.
H. O. Kershaw, Esq.
P. F. Fyson, Esq.
Mr. K. R. Ramaswami Aiyangar.
Mr. M. C. S. Anantapadmanabha Rao.

Dr. Henderson has been requested to act as Convener of the Commission and to fix the date of its visit to the college in consultation with the Principal.

Letter No. 121, dated January 7, 1919, from the Registrar, University of Madras,
to J. R. Henderson, Esq., C.I.E., M.B. & C.M.

With reference to correspondence ending with this office letter, No. 8978 of the 20th ultimo, I have the honour, by direction of the Syndicate, to inform you that M.R.Ry. Rai Bahadur K. Rangachariar Avl., M.A., L.T., of the Agricultural College, Coimbatore, has been appointed a member of the Commission appointed to conduct a local enquiry at the Women's Christian College, Madras, in connection with the application for the further affiliation of the college in Groups i and ii of the Intermediate courses and in Group (ii) of the B.A. Degree courses, in the place of Mr. P. F. Fyson resigned.

I have now to request you to be so good as to arrange for the local inquiry at an early date.

Copy communicated to M.R.Ry. Rai Bahadur K. Rangachariar Avl., M.A., L.T., with the request that he will be good enough to serve on the Commission. The papers connected with the application for affiliation have already been forwarded to Dr. J. R. Henderson, the Convener.

Letter, dated February 10, 1919, from J. R. Henderson, Esq., C.I.E., M.B. & C.M., Convener
of the Commission appointed to conduct a local enquiry at the Women's Christian
College, Madras, to the Registrar, University of Madras

With reference to your No. 8894, dated December 18, 1918, forwarding an application for the further affiliation of the Women's Christian College, Madras, in Groups i and ii of the Intermediate and Group (iii-A) of the B.A. Degree courses, I have the honour to report as follows:—

The Commission was composed of the following gentlemen each of whom undertook the enquiry in connection with the subject entered after his name:—

H. O. Kershaw, Esq., B.A., B.Sc. (Chemistry)
M.R.Ry. Rai Bahadur K. Rangachariar Avl., M.A., L.T. (Botany)
M.R.Ry. K. R. Ramaswami Aiyangar Avl., M.A., L.T. (Mathematics)
M.R.Ry. M. C. S. Anantapadmanabha Rao Avl., M.A., L.T. (Physics)
J. R. Henderson, Esq., C.I.E., M.B. & C.M. (Zoology), Convener

The local enquiry at the college was conducted on the forenoon of 25th January, when all the members of the Commission were present except Rai Bahadur K. Rangachariar who was unable to attend on that day. The Commission held a short preliminary meeting and interviewed Miss McDougall, the Principal of the college, after which the members separated and conducted their enquiries with the assistance of the members of the teaching staff in each subject. The enquiry in regard to Botany was conducted by Rai Bahadur K. Rangachariar on the forenoon of 27th January, and I attended also on this day, as a good many points in regard to Botany and Zoology required to be considered in consultation.

I have received from each member of the Commission a report on the subject with reference to which he conducted the local inquiry, and these reports are now forwarded for the information of the Syndicate.

I may add that Miss McDougall and the members of the teaching staff of the college did everything in their power to facilitate the work of the Commission. It was pointed out that the present teaching arrangements are more or less provisional, and that later on the college hopes to be in a position to provide better and more extensive accommodation for the teaching of the Science subjects.

The application for affiliation and other papers which accompanied your letter under reply are now returned.

ENCLOSURES

(i) Report on the provision for the teaching of Mathematics

Accommodation.

A room on the ground floor, measuring 26' x 20', is used for lectures and practical work in Mathematics as well as Physics. About one-half of the room is taken up by the lecturer's seat and table and two rows of chairs for students during lectures. In the other half of the room are two large tables each of which (8' x 4') can accommodate four students at Mathematical drawing. There are, in addition, four small tables near the windows of the room, but these are not sufficiently broad and tall to serve as drawing

tables. As the room is fitted at present, accommodation is good only for eight students, while, with some inconvenience, four more can be provided for. There are no tables or desks in front of the students during lectures and ordinary class work. The chairs are provided each with a wide arm sufficient to hold a note book, but this is not enough. Tables should be provided on which students could keep their textbooks open and also write in their note books.

Equipment.

The equipment is generally satisfactory. There are only six drawing boards now; a few more should be got, so that there might be as many of them as there are students doing practical work. Good sets of drawing instruments should be supplied by the college. Students now use their own instruments, mostly cheap ones, which are not good enough for accurate drawing.

Library.

A nucleus of a library has been formed, consisting of some well-chosen books. A few more books have been ordered for, but have not yet arrived. Provision should be made for annual additions.

Timetable.

Suitable.

Staff.

The present lecturer is Miss E. M. Coon, a B.A. in Mathematics and Physics, and a M.A. in Mathematics, of the Mount Holyoke College, U.S.A. She is lecturer in Mathematics as well as Physics, and has, on the time-table, 8 hours' work in Mathematics and 10 hours' work in Physics. The combined work is far too much for one person, and is prejudicial to efficiency. It is necessary to have two lecturers, one for Physics and another for Mathematics.

I am of opinion that the affiliation of the college might be recommended if assurances be given by the Council of the College that

- (1) the present lecturer will be relieved of her Physics work or that another lecturer will be appointed for Mathematics if the former prefers to do Physics, and that
- (2) the deficiencies noted under accommodation and equipment will be made good.

K. R. RAMASWAMI AIYANGAR.

(ii) Report on the arrangements for teaching Physics

I. Accommodation.—The Physics department (a rough plan of which is sent herewith) is located in the ground floor of the college. There are (i) a laboratory and lecture room, (ii) an apparatus room and (iii) a dark room.

The room (i) measuring 26' by 20' has a lecture table and fourteen chairs for students occupying about half the room. The chairs need convenient desks in front (in place of the small planks attached to one of the arms) to be used during lectures. The chairs crowd, the space between the lecture table and working benches blocking free movement round them.

Two working benches measuring 8' by 4' each and a few low narrow tables most of them being opposite to window spaces, occupy the other half of the room (18' by 20'). The working benches could not accommodate more than eight pupils for practical work and the side tables are required for miscellaneous purposes both by the lecturer and students. These tables and benches have plain table tops and have no cupboard below them.

The room (ii) is used as the lecturer's room, apparatus room and store room. The room measuring about 10' by 15' is not sufficient for all the purposes mentioned above.

There is no accommodation for a teacher's preparation room, electrical battery and workshop. Nor is there sufficient space to fit up the requisite number of galvanometers, balances, etc., in the laboratory.

II. Fittings.—There is no gas supply to the working benches. The few gas taps put on the lecture table and one of the side tables may be sufficient for general purposes and the working bench should therefore be provided with gas taps for the regular use of the class.

The gas is at present prepared in the chemical laboratory with a petrol plant intended for thirty-two burners. Considering the demand in the chemical laboratory for lecture tables, fume cupboards, preparation table, working benches, blowpipe tables, etc., the plant could not supply the ordinary needs of the physical laboratory which should have, therefore a separate supply or have the capacity of the common source considerably increased.

Water is available at three points in the laboratory.

There is no arrangement for the supply of steady electric currents to the lecture tables and working benches. Provision should be made for a storage battery of 30 to 35 cells so as to supply currents of varying strengths and pressures in the laboratory.

III. *Apparatus*.—The supply of apparatus is far below the minimum requirements laid down by the University in 1909. It is quite inadequate and should remain so till the arrival of instruments and materials from Europe or America. It is impossible to conduct the course properly with the meagre stock on hand.

Lists of apparatus intended to be purchased have been placed before me and amount of apparatus, when all the indents are fully complied with, would be sufficient for a batch of not more than eight students working individually.

Workshop tools and furniture for glass, metal and wood work should be obtained.

IV. *Staff*.—The lecturer is Miss E. M. Coon, an M.A. in Mathematics and a B.A. in Mathematics and Physics of Mount Holyoke College, U.S.A. There is no mechanic attender or skilled assistant to help her. She is also the sole lecturer in Mathematics for Intermediate work. She is assigned 8 hours in Mathematics and 10 hours in Physics per week. Considering the preparation for lectures and practical work in the laboratory, the valuation of note books, the work in Physics could not be done efficiently by the lecturer unless she is relieved of Mathematics work.

A mechanic and an attender should be appointed.

Library.—There is a nucleus of a library formed for Physics with 31 volumes and considerable additions should be made for the use of the staff and students.

Finance.—There seems to be no definite scheme and annual allotment to supply the needs of the laboratory in its initial stages and for its annual recurring needs.

General.—The Physical department is not quite prepared to take up the Intermediate work. The laboratory accommodation needs considerable additions and is inadequate for more than eight students. I am of opinion that the affiliation should not be recommended at present and that the application for affiliation should be renewed when the arrangements for increased accommodation, staff, gas and electric supply are complete and when the apparatus indented for has arrived and that the affiliation may then be recommended provided in the present laboratory more than eight students are not allowed to work at one time.

M. C. S. ANANTAPADMANABHA RAO.

(iii) Report on the arrangements for Teaching Chemistry

Staff.—Miss Dibell who is also the lecturer in Zoology is the head of the department and is assisted by Miss Cornelius. Miss Dibell is an M.A. of the University of Illinois. She took her M.A. in Botany but read Chemistry as a minor subject for her B.A. degree from the Western College for Women, Ohio. It is not possible to ascertain the exact standard of work required in Chemistry for this latter degree but it does not appear to be high.

Miss Cornelius is a Bachelor of Arts of the Women's College, Pennsylvania, and took Chemistry as a minor subject. She attends college only in the afternoons. There is also a part-time demonstrator who has passed the Intermediate Examination in Part II of Group II.

Miss Dibell does all the lecturing work and Miss Cornelius is responsible for the practical. This cannot be considered a good arrangement however intimate the co-ordination between their separate duties may be at the stage at which the students are working; it is eminently desirable that they should be dependent on the same person for their practical and theoretical teaching.

Miss Dibell has fifteen hours a week, lecture work in Chemistry and lecture and laboratory work in Zoology and in addition has to maintain two laboratories. Such heavy duties cannot be expected to confer efficiency on either department. I am disposed to submit that the college be required to entertain exclusively for the chemical department a lecturer of acceptable qualifications in Chemistry, or to put Miss Dibell in exclusive charge.

Such a lecturer failing the adoption of the latter suggestion, could be put in exclusive and sole charge of the department and it would afford her ample scope for work.

The menial staff consists of one peon whose services are common to the chemical and botanical departments. This appears inadequate. A responsible trained attender for Chemistry alone is necessary.

Accommodation.—The entire accommodation consists of one room measuring 36' by 20' with verandahs on the north and south sides and a store room adjacent semicircular in shape of maximum dimensions 20' + 15'.

The former is used as a laboratory and lecture room for the latter purpose a demonstration table is provided and chairs are brought in when required.

For practical work two benches 11' by 4½' and 9' by 4' are provided and the available working area on the demonstration table which is used also as a bench is 8' by 4½'.

Each bench is intended to accommodate eight students, which in the case of one of the two will afford only an area of 2' by 2½' per student against a normal allowance of 3½' by 2½'.

The apology offered is that the students work in pairs and so each requires less space. This is a bad system and cannot be invoked to justify the inadequate bench area.

Balances are placed on substantial platforms against the walls of the laboratory and store-room.

The gas apparatus (De Laitte system) is housed in a small partitioned-off area in the north verandah.

It is hoped to accommodate sixteen in each year in the present provision but fourteen is the maximum number that can work comfortably at the same time.

Ventilation could be improved by replacing the glass for lights by expanded metal or putting them on hinges.

The benches are of satisfactory design and cupboard accommodation satisfactory.

It was stated that the present accommodation is temporary, plans for new science buildings having been prepared.

Equipment.—Gas and water are satisfactorily provided and the drainage is good. The supply of apparatus and appliances is satisfactory save for a few omissions, e.g. drying ovens, and furnaces and demonstration apparatus which is almost entirely absent. Charts, diagrams, a mineral collection and chemical specimens might be advantageously supplied.

The supply of chemicals is small but is being made good as facilities offer.

The still should be set up permanently in some convenient spot.

Library.—The library is poorly equipped, but it is difficult to provide a library suitable for Intermediate students. It is presumed that the staff has its own books, if not considerable additions to the library are necessary.

Finance.—There does not appear to be any definite annual allotment for the department. This is a mistake. A generous budget provision is eminently desirable as without it practical work is liable to be restricted.

General.—The management is very anxious to do everything necessary to make the department efficient. On the whole at present it is on a small scale satisfactory. Miss Dibell is keen but is overworked and it would be in her interests and in those of the department if she were relieved of some of her work and her energies confined to one department.

I have no hesitation in recommending that affiliation be granted, but the attention of the management may be directed to my remarks under staff.

H. O. KERSHAW.

(iv) Report on the arrangements for teaching Botany.

The college intends admitting for the present only ten students for the Intermediate and four for the B.A. [for Group II and Botany (B.) A. Main].

Staff.—Both the classes will be in charge of a Professor and an Assistant Professor so far as Botany is concerned. The Professor is a Graduate of an American University and she has also received some training in Histology and Physiology and the Assistant is a B.A. in Botany (Main) of the Madras University. So the provision made for the teaching of Botany is adequate, as far as the staff is concerned.

Accommodation.—The room intended for the use of the Intermediate students is about 20' by 26' and it is quite sufficient for ten students. It is well lighted and is quite suitable for conducting practical classes. A small additional room also is available for lecture purposes.

For the B.A. class another room to the west of the above room is allotted, and though it is a smaller, it is quite sufficient to accommodate four students. The windows are so placed as to allow plenty of good light to fall in and is best suited for microscopic work.

Laboratory fittings and apparatus.—The necessary fittings and apparatus, such as tables, cases, microscopes, dissecting instruments, etc., have been provided for. The apparatus required for physiological work, and some microscope slides, I understand, have been ordered and they will be ready for use next term. In the way of specimens for demonstration and class work a beginning has been made and this will be augmented gradually.

Books.—Most of the standard works available in Botany have been secured and the set of books available is quite enough for the requirements of the students.

I am of opinion that affiliation can be granted in Botany for the Intermediate as well as for B.A. Botany, main, on the distinct understanding that not more than ten for Intermediate and not more than four for B.A. are admitted.

K. RANGACHARI.

(V) Report on the arrangements for teaching Zoology.

Affiliation to the University is sought by this college in connection with the teaching of Zoology in the Intermediate course, and of Zoology as a subsidiary subject in the B.A. course. It is proposed to limit the number of students in the Intermediate to ten in each class, and in the B.A. to four in each class.

1. *Accommodation.*—The Biological Department is located in the upper storey of the college and consists of two rooms opening into one another, intended for the Intermediate and B.A. classes respectively.

The Intermediate room measures 26' x 20'. Part of the room is set aside for lectures, with blackboard, seats, etc., while in the remaining part there are three tables for practical work, each capable of accommodating four students. It is proposed to teach Intermediate Botany also in the same room, and as each of the two subjects will only require six hours teaching per week there will be no difficulty in doing so. A corner of the room is partitioned off as a store room. There are two verandahs, and one of these, which is provided with water, will be useful for the preparation of specimens. The Intermediate room is well lighted.

The B.A. room is roughly 20' x 20' and it also is fitted up partly for lectures and partly for practical work. It is proposed to accommodate here four students taking Botany as their main subject and Zoology as subsidiary subject. As the total teaching in the two subjects will amount to about fourteen hours per week for each of two sets of students (Senior and Junior), it will not be possible to carry out all the teaching in this room. Arrangements can, however, be made to utilize the Intermediate room partly for this

purpose, and there is an additional room, at no great distance, which can also be used for lectures if required. The lighting of the B.A. room is good and it is provided with water.

2. *Fittings and Apparatus.*—A class museum of zoological specimens is located in the B.A. room, and with a few additions, some of which are already under order, will provide adequate material for teaching purposes in both the B.A. and Intermediate classes. An articulated human skeleton for Intermediate teaching is kept in the Intermediate room. The provision for microscopes, dissecting instruments, dissecting boards, etc., is adequate. There is a good stock of microscopical slides and others are under order.

3. *Library.*—There is a fair stock of standard works in Zoology, sufficient for the small classes in contemplation. It will, of course, require to be improved and kept up to date from year to year. The books are stored in the B.A. room.

4. *Staff.*—Most of the Zoological teaching will be undertaken by a lady graduate of Allahabad University (B.Sc., First Class), who is expected to join the staff shortly. Till her arrival the teaching will be undertaken by Miss Dibel, M.A. (University of Illinois), who has already had special experience in teaching this subject.

As a result of my inspection I am of opinion that affiliation may be granted for Intermediate Zoology and B.A. Zoology (subsidiary subject), on the understanding that the numbers of students mentioned above are not exceeded, so long as teaching is conducted in the present quarters.

J. R. HENDERSON.

Letter No. 1074, dated February 13, 1919, from the Registrar, University of Madras, to the Secretary of the College Council of the Women's Christian College, Madras

With reference to your letter, dated 27th November last submitting an application for the further affiliation of the Women's Christian College, Madras, in Groups I and II of the Intermediate and Group (iii)—Botany of the B.A. Degree courses, I have the honour, by direction of the Syndicate, to forward to the Management of the College a copy of the report of the Commission which conducted the local inquiry at the college.

The Syndicate directs me to enquire whether the Management is prepared (1) to appoint distinct lecturers for Mathematics and Physics, (2) to appoint a lecturer in exclusive charge of Chemistry (as distinct from Natural Science), and (3) to make improvements as speedily as possible in provision of accommodation and equipment in Physics.

I am to ask for a reply to this reference by the end of this week, so that it may be circulated to the members of the Syndicate before the meeting of that Body to be held on the 17th instant.

Letter, dated February 14, 1919, from the Hon'ble the Rev. G. Pittendrigh, M.A., Secretary of the College Council of the Women's Christian College Madras, to the Registrar, University of Madras.

With reference to your letter No. 1074, dated February 13, 1919, I have the honour to state that the Management is prepared (1) to appoint distinct lecturers for Mathematics and Physics, (2) to appoint a lecturer in exclusive charge of Chemistry (as distinct from Natural Science), and (3) to make improvements as speedily as possible in provision of accommodation and equipment in Physics. Many of these improvements would have been carried out but for the delay, owing to War conditions, in the completion of orders which have already been placed.

The Syndicate considered the above communication, together with the whole correspondence, at its adjourned meeting held on February 17, 1919, and resolved to recommend the Senate to record its opinion that the application for affiliation may be granted by the Government.

Extract from the Minutes of the Syndicate passed in circulation dated December 14, 1918.

Read letter dated November 27, 1918, from the Secretary, the Women's Christian College, Madras, applying for the further affiliation of the college in Groups i and ii of the Intermediate courses and in Group(iii) - Botany and Zoology - of the B.A. Degree courses;

together with the report thereon of the Affiliation Committee of the Syndicate.

Resolved that a Commission consisting of Messrs. K. R. Ramaswami Aiyengar, M. C. S. Anantapadmanabha Rao, H. O. Kershaw, P. F. Fyson and J. R. Henderson be appointed to conduct a local inquiry at the college.

Extract from the Minutes of the Syndicate passed in circulation dated January 4, 1919.

Read letter dated December 19, 1918, from Mr. P. F. Fyson, expressing his unwillingness to serve on the Commission appointed to conduct a local inquiry at the Women's Christian College in connection with the application for the further affiliation of the college in Groups i and ii of the Intermediate and Group (iii) of the B.A. Degree Courses;

together with the report thereon of the Affiliation Committee of the Syndicate.

Resolved that Rai Bahadur K. Rangachariar be appointed to serve on the Commission in place of Mr. Fyson.

Extract from the Minutes of the Meeting of the Syndicate held on February 10, 1919.

Read report of the Commission appointed to conduct a

local inquiry at the Women's Christian College, Madras, in connection with an application for further affiliation of the college in Groups ^{i and} ii of the Intermediate and Group (iii) of the B.A. Degree courses.

Resolved that the report be referred to the Affiliation Committee for consideration and report.

Extract from the Minutes of the Syndicate passed in circulation dated February 12, 1919.

* * *
Read report of the Commission appointed to conduct a local inquiry in connection with the application for the further affiliation of the Women's Christian College, Madras, in Groups i and ii of the Intermediate courses and in Group (iii) - Botany of the B.A. Degree courses;

together with the report thereon of the Affiliation Committee of the Syndicate.

Resolved that a copy of the local inquiry report be forwarded to the Management of the College with a request for a reply by the end of the week as to whether it is prepared (1) to appoint distinct lecturers for Mathematics and Physics, (2) to appoint a lecturer in exclusive charge of Chemistry, and (3) to make improvements as speedily as possible in provision of accommodation and equipment in Physics.

* * *

Extract from the Minutes of the Adjourned Meeting of the Syndicate held on February 17, 1919.

* * *
Considered again report of the Commission appointed to conduct a local inquiry at the Women's Christian College, Madras, in connection with an application for further affiliation of the college in Groups i and ii of the Intermediate and Group (iii) of the B.A. Degree courses;

together with the reply of the Management on the points

13
commented upon by the Inspection Commission.

9
Resolved to recommend the Senate to record its opinion that affiliation may be granted by the Government.

/True Extracts/

Senate House,
March 15, 1919.

Francis. D. ...
Registrar.

174 10
UNIVERSITY OF MADRAS.

Extract from the Minutes of the Meeting of the Senate
held on March 7, 1919.

* * *
The Rev. E. M. Macphail moved
and
Mr. G. A. Natesan seconded

That the Senate record its opinion that the application
from the Secretary to the Council of the Women's Christian
College, Madras, for the further affiliation of the college in
Groups i and ii of the Intermediate courses and Group (iii-A)—
Botany, of the B.A. Degree courses may be granted by the
Government.

carried.

* * *
/True Extract/

Senate House,
March 15, 1919.

Francis D. ...
Registrar.

Home (Edu) Dept

C-580 B - From the Registrar, University of
Madras No 1872 D 17. 3. 19

Subject: — Further affiliation of the
Women's Christian College,
Madras.

Submitted that the remarks
of the D.P.I. may be obtained u.o as to
whether the further affiliation of the
Women's Christian College, applied for
may be granted.

21.3.19

CA
23/3/19

DDP

[Office of the D.P.I.]

I recommend that the further
affiliation applied for be granted.

24.3.19

Home (Edu) Dept

A draft order is submitted for
approval

CA
27.3.19

28/3/19

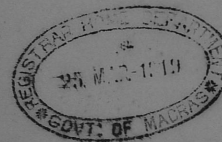
H.S.

21.3.19

Home (Edu) Dept
No. 580 B-1
24.3.19

25.3.19

No. 170 & 25.3.19



B 40
G. 31.3
R. 24

Sanctioning the further — to the University of Madras, of the Women's Christian College, Madras in Groups (i) and (ii) of the Intermediate courses and Group (ii-A) — Botany of the B.A. Degree courses.

” ” ” ” ” 191

C. No. 580B, From the Registrar, University No. 1872, dated 17-3-1919
of Madras

” ” ” ” ” ” 191

" " " " ""

191

No. 410, dated 2-4- 1919.

Miss

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 Women's Christian College, Madras, in Groups (i) and (ii) of the Intermediate courses and Group (iii-A) - Botany of the B.A. Degree courses.

To

The Registrar, University of
Madras

Copy Home D-P. D

S.G. P. (for publication of the
notification in the Gazette
Gazetted on 8.4.49

5.3.19

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ORDER OF GOVERNMENT

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ORDER OF GOVERNMENT

STATEMENT WITH LITTO.

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