

EDUCATION.

DECEMBER.

File $\frac{4-C}{26}$ //

Nos. 33-61.

Construction of a Physical Laboratory for the Presidency
College.

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CONSTRUCTION OF A PHYSICAL LABORATORY FOR THE PRESIDENCY COLLEGE.

[No. 33.]

[FILE $\frac{4-C}{4}$ 1.]

No. 2557, dated Calcutta, the 12th July 1909.

From—THE HON'BLE MR. J. G. CUMMING, I.C.S., Secretary to the Government of Bengal, General Department,
To—The Director of Public Instruction, Bengal.

I AM directed to address you regarding the measures for the improvement of the Presidency College. The present position is that an area of 5 bighas, 8 cottahs, 8 chittucks, and 12 sq. ft. has been acquired adjacent to the existing site. Out of the large number of projects which were contemplated to make the college an ideal institution, there are many which for a considerable time to come are beyond the financial powers of this Government. It is understood, however, that upon the restricted area which has been acquired, it has been considered that the erection of physics laboratory will be most appropriate and most urgent. The Lieutenant-Governor is prepared to make a beginning at least in the course of the present year of the improvement of this nature to the college. I am therefore to request that you will submit with the least possible delay plans and estimates for this extension of the college.

[Nos. 34-35.]

[FILE $\frac{4-C}{4}$ 2.]

No. 244 T, dated Darjeeling, the 8th June 1910.

From—THE HON'BLE MR. G. W. KUCHLER, Director of Public Instruction, Bengal,
To—The Secretary to the Government of Bengal, General Department.

I HAVE the honour to invite reference to Mr. Cumming's letter No. 2557, dated the 12th July 1909, and to forward herewith a copy of a letter No. 3328, dated the 3rd June 1910, from the Superintending Engineer, Central Circle, together with plans and estimates, amounting to Rs. 2,58,968, for constructing the new physical laboratory, Presidency College, Calcutta.

2. The plans and estimates have been countersigned by me in token of approval, and I request that the estimate may be sanctioned by Government and transmitted along with the plans to the Chief Engineer for necessary action.

No. 3328, dated Calcutta, the 3rd June 1910.

From—The Superintending Engineer, Central Circle,
To—The Director of Public Instruction, Bengal.

I HAVE the honour to forward, for favour of countersignature, the accompanying plans and estimate, amounting to Rs. 2,58,968, for constructing the new physical laboratory, Presidency College, Calcutta, and to request that the documents may be transmitted direct to the Chief Engineer, Bengal, with as little delay as possible.

[No. 36.]

[FILE $\frac{4-C}{4}$ 3.]

No. 817 T.—G., dated Darjeeling, the 11th June 1910.

From—H. A. F. LINDSAY, Esq., I.C.S., Under-Secretary to the Government of Bengal, General Department,
To—The Director of Public Instruction, Bengal.

WITH reference to your letter No. T.244, dated the 8th June 1910, I am directed to convey the administrative approval of Government to the construction of a new physical laboratory for the Presidency College, Calcutta, at an estimated cost of Rs. 2,58,968. The Public Works Department has been requested to take the work in hand at once.

No. 818 T.—G.

COPY, with the plans and estimate in original, forwarded to the Public Works Department of this Government, for information and necessary action.

By order of the Lieutenant-Governor of Bengal,

H. A. F. LINDSAY,

Under-Secretary to the Government of Bengal.

DARJEELING;
GENERAL DEPT.—*Education,*
The 11th June 1910.

[Nos. 37-38.]

[FILE $\frac{4-C}{4}$ 4.]

No. 1139 B., dated Calcutta, the 1st August 1910.

Memo. by—O. S. SMITH, Esq., Under-Secretary to the Government of Bengal,
Public Works Department.

EXTRACT paragraphs 1, 2 and 3 of the following forwarded, for information, to the General Department of this Government, with reference to that department memorandum No. 818 T.—G., dated the 11th June 1910.

No. 1138 B., dated Calcutta, the 1st August 1910.

From—O. S. SMITH, Esq., Under-Secretary to the Government of Bengal, Public Works Department,

To—The Superintending Engineer, Central Circle.

WITH reference to your letter No. 3327, dated the 3rd June 1910, I am directed to communicate sanction to the estimate, amounting, after correction in this office, to Rs. 2,52,225, for constructing physical laboratory, Presidency College, Calcutta, and to request that the work may be started at once.

2. You should report what amount will be required for expenditure on the work during the current year.

3. There are three or four small alterations wanted by Mr. Peake, who may be asked what these are, and then they can be carried out during the construction.

[No. 39.]

[FILE $\frac{4-C}{5}$ 5.]

No. 2968.

COPY of the above forwarded to the Director of Public Instruction, Bengal, for information, in continuation of Government order No. 817 T.—G., dated the 11th June 1910.

By order of the Lieutenant-Governor of Bengal,

H. A. F. LINDSAY,

Under-Secretary to the Government of Bengal.

CALCUTTA;
GENERAL DEPT.—*Education,*
The 15th August 1910.

[Nos. 40-41.]

[FILE $\frac{4-C}{4}$ 6.]

No. 1964 A., dated Calcutta, the 15th August 1910.

Memo. by—O. S. SMITH, Esq., Under-Secretary to the Government of Bengal,
Public Works Department.

COPY of the following forwarded to the General Department of this Government for information, in continuation of this office memorandum No. 1139 B., dated the 1st August 1910.

No. 1963 A., dated Calcutta, the 15th August 1910.

From—O. S. SMITH, Esq., Under-Secretary to the Government of Bengal, Public Works Department,

To—The Superintending Engineer, Central Circle.

IN continuation of this office letter No. 1319 B., of this date, I am directed to allot Rs. 1,50,000 for expenditure during the current financial year on the construction of physical laboratory, Presidency College, Calcutta.

[No. 42.]

[FILE $\frac{4-C}{4}$ 7.]

No. 3362.

COPY of the above forwarded to the Director of Public Instruction, Bengal, for information, in continuation of Government order No. 2968, dated the 15th August 1910.

By order of the Lieutenant-Governor of Bengal,

H. A. F. LINDSAY,

Under-Secretary to the Government of Bengal.

CALCUTTA;

GENERAL DEPT.—Education,

The 26th August 1910.

[Nos. 43-50.]

[FILE $\frac{4-C}{4}$ 8.]

No. 21128, dated Calcutta, the 21st December 1910.

From—THE HON'BLE MR. G. W. KÜCHLER, Director of Public Instruction, Bengal,

To—The Secretary to the Government of Bengal, General Department.

I HAVE the honour to invite a reference to the Government letter No. 576 T.—G., dated the 25th May 1910, constituting a Committee for the consideration of the improvement of the Presidency College. The Committee has not yet completed the work with which it was entrusted, but an *interim* reference to Government has become necessary owing to an immediate decision being called for with regard to a specific recommendation adopted by the Committee at its third meeting held on the 6th December 1910.

2. In the original letter from Government referred to above, it was requested that the Committee should, in the first place, draw up plans and select a site at Bhowanipore for a new school to take the place of the present Hare School, it having been decided at the conference held at Belvedere on the 3rd July 1907 that the absorption of the Hare School buildings by the Presidency College was an essential feature of the scheme for the extension of the latter institution. This matter was therefore discussed at the first meeting by the Committee held on the 23rd July 1910, and as will be seen from the report of the proceedings, the proposed removal of the Hare School was approved, and it was further recommended that the erection of the new school at Bhowanipore should follow immediately on the construction of the physical laboratory, the latter work having already been taken in hand during the current year.

Appendix A.

3. It was also resolved at the second meeting of the Committee held on the 13th August 1910 to recommend that the next work to be taken up after the erection of the new school should be the acquisition of the south-west corner portion of the whole area marked out for eventual purchase and the construction of the remaining laboratories, viz., physiological, botanical and geological, the first named being placed on the top of the physical laboratory now in process of erection and the two latter to form a separate building on the site thus acquired. On further examination of the question, however, by the Sub-Committee appointed at the same meeting to consider the grouping of the various buildings on the site to be ultimately acquired and to frame an approximate estimate of the cost of the whole scheme, it was found that it would not only be much more economical to form all the laboratories into one block but that the architectural effect would also be more

Appendix B.

Appendix C.

pleasing—an opinion fully endorsed by the Consulting Architect to the Government of Bengal—while, in addition, the adoption of this procedure would mean a much more rapid realization of some of the most essential parts of the complete scheme (at moreover a comparatively small cost) than if the removal of the Hare School were given the first place in the execution of the project for extension. It was accordingly agreed by the members of the Sub-Committee to recommend this slight modification of the original scheme to the General Committee.

The recommendation of the Sub-Committee was fully considered at the third meeting of the Committee held on 6th December 1910, and it was unanimously resolved (1) that the completion of the laboratories should take precedence over the removal of the Hare School and (2) that it was advisable to press for the construction of the remaining laboratories as a complete scheme.

4. The project which accordingly now requires the administrative sanction of Government with a view to the allotment of funds in the Public Works Department budget of the year 1911-12 is as follows:—

- (a) the construction of a physiological laboratory on the top of the physical laboratory now in process of erection;
- (b) the construction of a western wing to the physical laboratory consisting of two storeys, the lower to form a geological, and the upper a botanical laboratory; and
- (c) the acquisition of a small plot of land to the west of that on which the new physical laboratory is being erected to provide sufficient space for the western wing proposed above.

5. I submit herewith a copy of an estimate made by the Executive Engineer, 3rd Calcutta Division, of the cost of these three items and also a plan of the site which will have to be acquired. The figures are for—

	Rs.
(a) Construction of a physiological laboratory	66,595
(b) Construction of a western wing	1,14,175
(c) Acquisition of land	1,06,850
Total	2,87,620

The Superintending Engineer has since indicated that an additional sum of Rs. 22,000 will have to be taken into account for fittings for the laboratory. The cost of the whole project therefore works out at Rs. 3,10,000 approximately. This does not, however, represent the whole allotment which will have to be met if the laboratories are to be completed in 1911-12. The cost of the physical laboratory now under construction was estimated at Rs. 2,58,968, and of this sum Rs. 1,50,000 were allotted for the work during the current year. The balance of Rs. 1,08,968 must therefore be added to the Rs. 3,10,000 above to give the total expenditure that will be necessary to complete the laboratory buildings. This total works out at Rs. 4,18,968.

6. I would now strongly recommend that this sum be allotted, if possible, in next year's budget, a special grant being, if necessary, made for the purpose, as I am assured by the Public Works Department that they will be able, if funds are forthcoming, to complete the whole building before the end of the financial year 1911-12. The prospect of making such substantial headway in the matter of providing for the crying wants of the Presidency College in the brief space of one year and at a comparatively small cost induces me to press on Government the desirability of making a special allotment for the purpose.

7. Should, however, financial considerations preclude the allotment of the whole sum in one year, the expenditure may be carried over two years, a sufficient sum being provided in next year's budget to complete the physical laboratory, to construct the physiological laboratory at a cost of Rs. 66,595 and to construct half of the western wing, for which portion no further land will be necessary, at a cost of Rs. 57,000. The total allotment required for these items is approximately Rs. 2,30,000.

APPENDIX A.

Minutes of a meeting of the Committee appointed to consider the Improvement Scheme held on Saturday, the 23rd July, at 3 p.m.

PRESENT:

THE HON'BLE MR. G. W. KÜCHLER.
 " " DR. ASHUTOSH MUKHOPADHYAY.
 " " MR. DEVA PRASAD SARVADHIKARY.
 " " S. L. MADDOX.
 SIR GURU DAS BANERJI.
 THE HON'BLE MR. BHUPENDRA NATH BASU.
 MR. B. K. FINNIMORE.
 " H. M. PERCIVAL.
 " C. W. PEAKE.
 DR. P. C. RAY.
 MR. H. R. JAMES.

On the proposal of the Vice-Chancellor, the Hon'ble Mr. Küchler was voted to the chair. Mr. Küchler in introducing the work before the Committee referred back to the opinion expressed at a meeting of the Governing Body, held on the 9th April, namely, that the first step to be taken towards carrying out the scheme for Presidency College was to buy the rest of the 22 bighas of land estimated as required for the completion of the scheme. This, he said, was accepted in principle; there were nevertheless strong practical reasons which made it advisable to go on with the buildings, even though the whole of the land could not be at once purchased. That being so, it became the first business of the Committee to consider which among the various buildings contemplated in the scheme should be taken up first.

Mr. Küchler went on to explain that on consideration of the details of the scheme as a whole, it appeared that the most immediate and effective relief would be given by the removal of the Hare School to a new building, a measure which was determined on by the conference held at Belvedere on the 3rd July 1907. He referred back to the record of that conference, from which it appeared that it was there unanimously agreed that the removal of the Hare School was *necessary*. This much then might be accepted as settled. The Hare School was to be removed. Taking this as a starting-point, the steps next in order for this Committee to take were—

- (1) to decide after full discussion to what quarter of the town the Hare School should go;
- (2) to appoint a Sub-Committee who should—
 - (a) choose the new site;
 - (b) obtain an estimate of the cost of this site;
 - (c) frame estimates of the cost of building the new school.

1. Accordingly the question of the district to which the Hare School should be taken, when transplanted, was placed before the Committee for discussion.

Speaking to this question, Sir Gooru Das Banerji recapitulated the grounds—sentimental and practical—on which he had formerly opposed, and still opposed now, *any* removal of the Hare School from its present place in the compound of Presidency College. He considered there was land enough for both Hare School and Presidency College, and that to satisfy the University Regulations a wall should be built, separating off the Hare School.

The Hon'ble Mr. Sarvadhikary considered that the Hare School *must* be taken over by Presidency College. The place to which the Hare School should go was an open question. Bhowanipore had been suggested at the Belvedere Conference of 1907. But he did not think Bhowanipore really wanted the Hare School. In the matter of schools, Bhowanipore was quite capable of taking care of itself. He pointed to the possibility of erecting a building of four storeys on the present site of the Hindu School (on the north side of College Square). He believed that such a four-storeyed building would prove amply sufficient for the Hindu School, the Hare School and the Calcutta University Institute.

The Hon'ble Mr. Bhupendra Nath Basu observed that there were really two questions before the Committee—

- (1) Must Presidency College have the Hare School building?
- (2) If so, where is the Hare School to go to?

The Director of Public Instruction considered (1) quite settled. It was better to take the opinion of the Committee on the point.

Accordingly a vote was taken on the question whether it was agreed that the Hare School must be removed. The Committee were almost unanimous for removal, Sir Gooru Das Banerji alone recording an adverse opinion.

Consideration of the place to which removal should be made was then resumed. Dr. Ashutosh Mukhopadhyay explained his position in respect of the question of amalgamation or removal. He felt fully the force of the sentimental considerations, but the considerations which should determine the Committee's decision were practical. The practical difficulty in the way of carrying out Mr. Sarvadhikary's proposal for a four-storeyed building on the

Hindu School site is that the Hindu School site cannot afford space for a school of the type which is now recognised as required. Enough land for the purpose cannot, possibly, be acquired on the College Square site. To rebuild the Hare School on this site would be to repeal the mistake recognised as made in the case of Presidency College. On the other hand, Bhowanipore people do want schools. There is a pressing demand for schools on that side of Calcutta. The needs of Ballyganj and Kalighat have also to be thought of, both improving as residential quarters of Calcutta. Of course, if the Hare School were taken to the south, the Hindu School would be rebuilt or enlarged: but it would be a mistake to rebuild the Hare School on a site 100 yards off. Sentimental reasons should not decide this question.

Mr. Basu added that Bhowanipur is now Calcutta, and as the conditions of living there are better than on the north, the suburbs on that side will grow. But it was true that another school was also wanted on the north. He was further sure that a new school built there would be self-supporting, so that Government need be under no apprehension as to the cost of upkeep. He proposed, therefore, that two new schools should be built—one in the north and one in the south of Calcutta—while the Hindu School remained in the centre. The needs of Calcutta required three Government schools.

Mr. Küchler remarked that in this discussion the connection with the improvement scheme must not be allowed to slip out of view. It was not practical politics to discuss two new schools. The difficulty was to get money enough for initial expenses. Ultimately there might be a third school. At present there was question only of the removal of the Hare School. The value of land at Bhowanipore, as compared with College Square, was a very relevant consideration.

Mr. Basu pressed the point that it was absolutely necessary to make provision for the boys now attending the Hare School. The enlargement of the Hindu School, so as to take 300 more boys, was a necessary preliminary to the removal of the Hare School. He definitely proposed that—

- (1) as a first step the Hindu School should be rebuilt and enlarged; that then
- (2) when this was done, Presidency College should take over the Hare School building; and, finally,
- (3) at some later date a new Government school should be built at Bhowanipore.

After some further discussion Dr. Mukerji formulated counter-proposals covering the same context, but inverting the order, namely, that—

- (1) a new school be built at Bhowanipore and called the Hare School;
- (2) the Hare School building be made over to Presidency College; and that as a rider
- (3) the Hindu School should, as soon as possible, be reconstructed or enlarged so as to take in 300 more boys.

These proposals were subsequently put to the vote—Dr. Mukerji's as the substantive resolution and Mr. Basu's as the amendment.

Dr. Mukerji moved—

“That a new school be built at Bhowanipore, to be called the Hare School, on the completion of which the present Hare School building should be made over to Presidency College.”

As a rider to this resolution was added “that the Hindu School shall, as soon as possible, either be reconstructed or extended by the addition of a new wing so as to accommodate 300 additional boys.”

The Hon'ble Mr. Bhupendra Nath Basu moved as an amendment—

“That additions should be made to the Hindu School to accommodate 300 boys, either by carrying out a plan of reconstruction or by simply extending the present buildings; that a new school be built at Bhowanipore, to be called the David Hare School, and thereupon the present Hare School building be made over to Presidency College.”

The amendment was first put and on the votes proving equal, 4 to 4, the President gave his casting-vote against the amendment.

The substantive resolution with its rider was then put and carried by 5 votes to 4.

The Hon'ble Mr. Deva Prasad Sarvadhikary desired that his dissent from all proposals to remove the Hare School from the neighbourhood of the present site should be recorded.

Before the resolutions were voted on, the Director of Public Instruction explained a suggestion made by Mr. Basu that for the north of Calcutta a possible solution would be the building of a good private school. A large sum of money would be forthcoming for the purpose, if it was certain that a Government school could not at present be built. This would be at least a temporary solution. The Hon'ble Mr. S. L. Maddox afterwards

These resolutions having been passed, the Director of Public Instruction proposed the appointment of a Sub-Committee for the following purposes:—

- 1) To select a site.
- 2) To procure a rough estimate of the cost of a site.
- 3) To procure a rough estimate of the cost of building a new school at Bhowani-pore.
- (4) To procure a rough estimate of the cost of a new wing to the Hindu School.

The following members were appointed—

Mr. B. K. Finnimore.	Mr. Küchler.
Dr. Mukerji.	„ James.

The next meeting was fixed for Friday, 12th August, at 5 P.M. (changed since to Saturday, 13th August, at 5 P.M.). It was indicated that the subjects for discussion at this meeting would be—

- (1) The objects to which the Hare School building should be put.
- (2) The projects to be taken up next in order.

APPENDIX B.

Minutes of a meeting of the Committee appointed to consider the Presidency College Improvement Scheme, held on Saturday, 13th August 1910, at 5 P.M.

PRESENT :

THE HON'BLE MR. G. W. KÜCHLER President.
" " DR. ASUTOSH MUKERJI.
" " MR. DEVA PRASAD SAVADHIKARY.
SIR GURUDAS BANERJI.
MR. B. K. FINNIMORE.
" H. M. PERCIVAL.
" C. W. PEAKS.
DR. P. C. RAY.
MR. H. R. JAMES.

The proceedings of the meeting of Saturday July the 23rd, were confirmed.

The President referred to the last page of the proceedings of the previous meeting where the subjects for discussion at the present meeting were indicated as—

- (1) The objects to which the Hare School building should be put.
- (2) The projects to be taken up next in order.

1. Adopting this order the President invited Mr. James as Principal to say what uses he would propose to make of the rooms in the Hare School when the school building was handed over to Presidency College.

Mr. James referred to the suggestions made in the letter covering the scheme as put forward in January 1908, namely, that the upper storey should be used for the students' common room, the lower part for Arts classes rooms. These proposals still held, except that possibly it might be found advisable to reverse positions and put the common room on the ground floor, the class rooms above. In particular he mentioned the need of separate rooms for "Seminars." There were now four of these.

Mr. Küchler enquired if there had not been an alternative proposal to transfer the college library to the Hare School building.

Mr. James explained that after careful consideration he had concluded that it was on the whole better to keep the library in its present quarters and gain additional space by the introduction of wall shelves in place of almirahs.

The proposals made were accepted provisionally, but it was further suggested that it was unnecessary to fix in exact detail the uses to which the Hare School building would ultimately be put. It was enough to know that it would be used to give much-needed space for the Arts teaching of the college and for the common room. The exact determination of uses might more suitably be left to the Governing Body when the time came for the occupation of the building. This suggestion, which was made by Dr. Mukerji, was welcomed by the Principal and generally accepted.

The Committee then proceeded to consider the order in which the other projects should be taken up.

The President first invited examination of the ground plan with a view to understanding how the rest of the ground demarcated for the extension of the college could be taken up by successive acquisition of parts. It was readily shown that the plot most easy to annex was the south-west corner continuing the strip on which the physical laboratory is to be built and completing acquisition on that side.

Next, Mr. Küchler pointed out that to determine the order of projects in detail, it was first necessary to determine broadly whether land or building projects should come first.

There would, he supposed, be some two to three lakhs to be expected yearly from Government while the scheme was in progress. The first question was, should the whole of the subvention in the first years be given to acquisition of land or should acquisition of land and construction of buildings go hand in hand.

Mr. James pressed strongly the urgency of the need for playing fields: the pleas on this head had been set forth in a note, copies of which had been received by members of the Committee before the meeting.

Mr. Finnimore explained that the combination of construction with acquisition of land would be the better economy of time and energy. If all the next year's money were expended on the acquisition of land, the scheme as a whole would be less advanced at the end of, say, three years, than if the piece of land pointed out by Mr. Küchler were bought and a laboratory built on it.

This question was decided by means of alternative proposals put before the Committee by the Director—

- (1) Should land for playing fields be first acquired ?
- (2) Should the south-west corner be acquired and built over ?

The votes being equal, the President gave his casting-vote in favour of (2). It was therefore decided that the south-west corner should first be acquired and a laboratory (or other building) at once built on it.

It having thus been decided that building was to go along with the acquisition of land, a prior question was raised by Mr. James whether the hall (the indispensable need of which had also been urged in a note circulated before the meeting) should not take precedence of everything, even of the acquisition of land at the south-west corner. This was put to the Committee and on the votes for and against again proving equal, the casting-vote was given by the President against making the building of a hall the project to be first taken up after the acquisition of the Hare School.

On the basis so settled the order outlined was—

1. Acquisition of the south-west corner and construction of laboratories.
2. Land for playing fields.
3. College Hall.
4. Hostel in extension of the Eden and Hindu Hostel.
5. Residences for the Principal and Professors. Minor projects might be taken up as convenience suggested.

The position on the site of the various buildings was discussed and agreed to without any wide difference of opinion revealing itself. Roughly, the grouping of Mr. Begg's site plan was maintained, but with important changes in detail. There was at the outset some discussion of the position of the hostel, it being obvious that convenience of supervision required that it should occupy the position in the south-west corner now to be assigned to laboratories. The greater necessity of north light for the laboratories was thought decisive for the grouping to which preference has been given.

3. The business of the meeting was concluded by the appointment of a Sub-Committee to arrange, in consultation with Mr. Crouch, Architect to the Government of Bengal, for the working out of a new site-plan and the plans of the various buildings in due course and to frame an approximate estimate of the cost of the various parts of the scheme. The Sub-Committee appointed are:—

MR. FINNIMORE
MR. PEAKE

DR. P. C. RAY.
MR. JAMES.

G. W. KÜCHLER,
President.

APPENDIX C.

A meeting of the Sub-Committee of the Presidency College Improvement Scheme was held at Writers' Buildings on 26th September 1910, to consider the question of the New College Buildings to be constructed in detail.

PRESENT :

- | | |
|--------------------|----------------|
| (1) MR. CROUCH, | (3) MR. JAMES, |
| (2) MR. FINNIMORE, | (4) MR. PEAKE, |
| (5) DR. P. C. ROY. | |

The buildings which the Committee had decided to be built first are the laboratories, so the Sub-committee proceeded to discuss these. Mr. Peake represented that the accommodation required for the physiological laboratory could be economically provided as a third storey on the physical laboratory. Mr. Crouch further explained that the botanical and geological laboratories could be accommodated in a wing constructed to balance the two-storeyed portion. Regarding the area required for these, Mr. Vredenburg has stated he requires 10,700 s. ft. for the Geological Laboratory, while Mr. Mahalanobis says 7,000 will

be ample for the botanic laboratory. Mr. Peake suggested that Mr. Vredenburg might reduce his estimate, as he had probably estimated for a larger number of students than the College would arrange classes for. Mr. James and Dr. P. C. Roy concurred in this. The present two-storeyed wing has an area of 6,300 s. ft. only, but Mr. Crouch says he can, without spoiling his design, design the new wing of a larger area, if necessary. It was decided that Mr. Crouch should draw up a rough plan of these laboratories after consultation with the Professors concerned, so that it could be seen what additional land must be acquired before the wing proposed can be built and what the cost of the building would be. Mr. Finnimore pointed out that, for convenience and economy, if all the laboratories are thus accommodated in one building they should be constructed continuously, and if funds are not forthcoming for the construction of the new Hare School and this building to go on simultaneously, it may be desirable to postpone the Hare School until this is completed.

2. It was also decided that Mr. Crouch should be asked to prepare a general plan of the arrangement of all the buildings.

The 27th September 1910.

The 28th September 1910.

The 30th September 1910.

The 30th September 1910.

The 1st October 1910.

B. K. FINNIMORE.

H. A. CROUCH.

C. W. PEAKE.

P. C. ROY.

H. B. JAMES.

APPENDIX D.

Minutes of meeting of the Committee appointed to consider the Presidency College Improvement Scheme, held on Tuesday, December the 6th, at 5-30 p.m.

PRESENT:

THE HON'BLE MR. G. W. KÜCHLER, *President.*
MR. C. W. PEAKE.
SIR GURU DASS BANERJI.
THE HON'BLE MR. DEVA PRASAD SARVADHIKARI.

DR. P. C. RAY.
THE HON'BLE MR. S. L. MADDOX.
MR. B. K. FINNIMORE.
MR. H. B. JAMES.

The President first stated that the business of the meeting was to consider the reports of the Sub-Committee. He pointed out that although these reports were not yet complete, it had been necessary to call a meeting of the General Committee at this stage as the Sub-Committee appointed to consider the grouping and plans of the buildings had suggested an important alteration in the previously accepted order of priority of the various items in the general scheme, and a reference on the subject had therefore to be made to the General Committee before matters could go further. The Sub-Committee in question had moreover, as will be seen from the report of their proceedings appended, made two alternative suggestions as to how the work should proceed if their main recommendation of a change in the original order of priority were accepted. The President therefore proposed that the members should first consider the recommendations of this Sub-Committee.

After some discussion of the points it was resolved unanimously:—

“That the completion of the laboratories in the form recommended by the Sub-Committee should take precedence of the removal of the Hare School.”

The alternatives put forward by the Sub-Committee were then discussed in detail. Opinion inclined strongly to the advisability of building at once the whole of the projected west wing and third storey on central block. The advantage of this course from the point of view of symmetry and completeness was obvious, and Mr. Finnimore further pointed out the economic advantage of carrying out completely building operations when once begun, and so avoiding the recurrence of the many preliminary expenses before work is set going. If the wing were left half finished then some few years hence, it would be necessary to start building afresh with all the attendant expense and inconvenience. A possible objection on the other side that the botanical laboratory is not wanted immediately and consequently if the whole wing is now built, it will remain for a time unoccupied and useless, was answered by the statement that the rooms so long as not yet wanted for botany could with advantage be used temporarily for a common room for students and for class rooms. The only real difficulty was the financial. Mr. Finnimore gave the cost of the additional land that must be acquired at Rs. 1,06,000. This added to the cost of completing the physics laboratory and adding the wing would make a total cost of Rs. 3,96,000* to complete the project. If the whole of this money could be provided, the laboratories might be finished by the end of the year 1911-12.

*A subsequent estimate of Rs. 22,000 on account of fittings remains to be taken into account, making the total Rs. 4,18,000.

It was concluded that it was advisable to press for the construction of the remaining laboratories as a complete scheme.

The order now recommended for the parts of the improvement scheme as a result of these decisions is :—

- (1) The construction of the physics laboratory of the other laboratories as a single range of buildings, with a central portion three-storeyed and two wings of two storeys. The physics laboratory to consist of the two storeys of the east wing and two storeys of the central block. The physiological laboratory to occupy the third storey of the central block.
- (2) The removal of the Hare School.
- (3) The playing fields.
- (4) The hall.
- (5) The new hostel.
- (6) Residence for the Principal and three Professors.

2. The grouping of the buildings as planned by Mr. Crouch and accepted by the Sub-committee was next considered and approved as a whole. Mr. Finnimore agreed to put before the architect certain suggestions of the Hon'ble Deva Prasad Sarbadhikary as to the arrangement of the buildings on the north side.

The Hon'ble Mr. Küchler made the further suggestion that the architect should be requested to prepare a bird's-eye view sketch of the buildings in elevation.

3. The last question discussed was the project for the removal of the Hare School. The President explained that nothing definite could be said as detailed surveys of the two selected sites had only just been received.

Sir Guru Das Banerji enquired whether timely notice of the removal would be given, so that disturbance to the school in the middle of the school year should be avoided. It was explained that the removal could not be as soon as next year, and that timely notice would certainly be given.

Rough plans prepared by Mr. Finnimore were provisionally approved. It was explained that they were based on the new Scottish Churches School buildings. Mr. Finnimore kindly undertook further to have tracings made of these plans and to distribute them to the members of the Committee.

As regards the extension of the Hindu School which was recommended in a rider to the resolution of the Committee, Mr. Finnimore stated that he could not give any estimate of cost until he knew more details as to the accommodation required.

A meeting of the Sub-committee of the Presidency College Improvement Scheme was held at Writers' Buildings on 26th September 1910, to consider the question of the New College Buildings to be constructed, in detail.

PRESENT :

- | | |
|--------------------|----------------|
| (1) MR. CROUCH, | (3) MR. JAMES, |
| (2) MR. FINNIMORE, | (4) MR. PEAKE, |
| (5) DR. P. C. RAY. | |

The buildings which the Committee had decided to be built first are the laboratories, so the Sub-committee proceeded to discuss these. Mr. Peake represented that the accommodation required for the physiological laboratory could be economically provided as a third storey on the physical laboratory. Mr. Crouch further explained that the botanical and geological laboratories could be accommodated in a wing constructed to balance the two-storeyed portion. Regarding the area required for these, Mr. Vredenburg has stated he requires 10,700 s ft for the geological laboratory, while Mr. Mahalanobis says 7,000 will be ample for the botanic laboratory. Mr. Peake suggested that Mr. Vredenburg might reduce his estimate, as he had probably estimated for a larger number of students than the college would arrange classes for. Mr. James and Dr. P. C. Ray concurred in this. The present two-storeyed wing has an area of 6,300 s ft. only, but Mr. Crouch says he can, without spoiling his design, design the new wing of a larger area, if necessary. It was decided that Mr. Crouch should draw up a rough plan of these laboratories after consultation with the Professors concerned, so that it could be seen what additional land must be acquired before the wing proposed can be built and what the cost of the building would be. Mr. Finnimore pointed out that for convenience and economy if all the laboratories are thus accommodated in one building they should be constructed continuously, and if funds are not forthcoming for the construction of the new Hare School and this building to go on simultaneously, it may be desirable to postpone the Hare School until this is completed.

2. It was also decided that Mr. Crouch should be asked to prepare a general plan of the arrangement of all the buildings.

The 27th September 1910.

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The 30th September 1910.

The 1st October 1910.

B. K. FINNIMORE.

H. A. CROUCH.

C. W. PEAKE.

P. C. RAY.

H. R. JAMES.

IMPROVEMENT OF PRESIDENCY COLLEGE.

Proceedings of the second meeting of the Sub-committee held at Mr. Finnimore's Office in Writers' Buildings on Wednesday, the 9th November 1910.

PRESENT :

MR. B. K. FINNIMORE.

„ H. A. CROUCH.

MR. C. W. PEAKE.

DR. P. C. RAY.

MR. H. R. JAMES.

Mr. M. T. Thomas, who is shortly to act for Mr. Crouch as Consulting Architect to the Government of Bengal, was also present by invitation.

The Sub-committee considered the new general plan prepared by Mr. Crouch and plans of the other buildings included in the scheme in the following order:—

1. Mr. Crouch's sketch of the general grouping.
2. The College Hall.
3. The New Hostel.
4. The Principal's house.
5. Residential quarters for Professors.
6. The Gymnasium.

1. Mr. Crouch's arrangement was accepted with one small modification—the removal of the stables to the north-west corner of the site away from the residential buildings.

A further suggestion to place family quarters for the Superintendent of the Hostel above the Gymnasium was accepted by Mr. Crouch and by the Sub-Committee.

Other possible positions for the hall were discussed at some length, and in particular a suggestion to place the Principal's residence above the hall; also a suggestion to throw the hall and residential quarters into a single range of buildings. The conclusion was to adopt Mr. Crouch's original grouping as on the whole the best.

2. *The College Hall.*—Mr. Crouch's plan was unanimously accepted.

The plan provides seats for a complement of 1,200 on a basis of 2 feet by 2 feet 9 inches per seat: partly in the body of the hall (70%), partly in galleries. This is without taking account of a raised platform, 25 feet by 56 feet, at one end of the hall.

3. *The New Hostel building.*—The conclusions as to the new hostel were:

(a) To adopt a plan without verandahs instead of the design prepared by Mr. Crouch which provided verandahs along the length of the building on both sides (east and west).

Mr. Finnimore strongly advocated the substitution of a central passage in place of the verandahs as economising space as well as being more healthy for the following reasons:—Verandahs are noisy and this leads to the students shutting the doors opening on them; also they make the rooms dark.

Dr. P. C. Ray expressed the opinion that the free admission of light and air from windows was a greater advantage than the convenience of open verandahs.

Mr. Peake and Mr. James were at first in favour of verandahs, but ultimately acquiesced in the reasons put forward by Mr. Finnimore and Dr. Ray.

(b) To estimate accommodation for 100 boarders in a plan of two storeys; but to lay foundations strong enough to take, if necessary, two more storeys—four storeys in all.

This allows provision for upwards of 200 boarders, if required.

(c) The plan was to include a common room on the ground-floor.

4. *The Principal's house.*—The plan for the Principal's house was accepted.

It was pointed out by Mr. Finnimore that the cost of the plan submitted would be high. It was, however, agreed by the Sub-committee that a cost considerably above the scale ordinarily permitted (based upon average salary) would be justified in view of the social obligations belonging to the position of the Principal of an educational institution of the size and character of Presidency College.

5. *Quarters for Professors.*—Mr. Crouch's plan was accepted with the reservation that some modification of the bath-room arrangements was necessary. Mr. Finnimore took exception to the connected system on the ground partly of costliness, partly of other incidental

difficulties. It was concluded that all circumstances considered it would be better to dispense with the connected system.

Quarters for three officers are provided in the plan. The arrangement is two two-storeyed suites occupying half the superficial area and a flat on the top storey. A separate entrance and staircase is planned for each residence.

6. *The Gymnasium.*—The Principal's estimate of 100 feet by 60 feet superficial area was provisionally accepted.

It was agreed that family quarters for the Superintendent of the Hostel might with advantage be placed over the Gymnasium.

The Principal undertook to furnish Mr. Crouch with a statement of requirements for the planning of these quarters.

It was then further agreed that the plan of the Gymnasium might be circulated to the members of the Sub-committee for approval, and that no further meeting of the Sub-Committee was necessary before report to the Committee is made.

APPENDIX E.

Approximate estimate of cost of extending the physics laboratory, Presidency College, Calcutta, on the west side and constructing a third storey over the central portion.

1. Area of the extended portion on the west at plinth :—			
	{ (139' 4½" × 75' 10½") - (39' 0" × 1' 1½") + (6½' ½" × 1' 1½") + (15' 9" × 1' 1½") }		
	= (10,575 + 72 + 18) - 44		
	= 10,665 - 44		
			Rs.
	= 10,621 s. feet @ Rs. 10-12 per s. foot	... ..	1,14,175
2. Area of central portion over which a third storey is to be built :—			
	[(172' 10" × 75' 10½") + 4 (18' 9" × 2' 6") - (23' 0" × 3' 7½")]		
	= (13,114 + 188) - 83		
	= 13,402 - 83		
	= 13,319 s. feet @ Rs. 5 per s. foot	... ..	66,595
3. Cost of land including compensation for existing structures (as per details attached)	... ..		1,06,850
			<hr/>
	GRAND TOTAL	... ..	2,87,620
	Say	... ..	2,88,000
			<hr/>

S. B. MOZUMDAR,

Executive Engineer, 3rd Calcutta Division

COST OF LAND, INCLUDING COMPENSATION FOR EXISTING STRUCTURES.

Nos. 9 and 10, Bhowani Charan Dutt's Street, age 20 years—

Two-storeyed and partly three-storeyed :—

			Rs.
First and second storey, 2,313 s. ft. at Rs. 6-8 per s. ft.	... ..		15,034
Third storey, 1,198 s. ft. at Rs. 2-4 per s. ft.	... ..		2,695
Pucca courtyard, 116 s. ft. at as. 8 per s. ft.	.. ..		58
			<hr/>
			17,787
Less depreciation at 15 per cent. (condition of building good)	... ..		2,668
			<hr/>
			15,119
			<hr/>

No. 8, Bhowani Charan Dutt's Street (portion)—

Nurea-tiled hut with mud wall :—

Superficial area, 378 s. ft. at as. 5 per s. ft.	... ..		118
Less depreciation at 30 per cent.	... ..		35
			<hr/>
			83
			<hr/>

No. 11, Bhowani Charan Dutt's Street—

One-storeyed building under construction :—

	Rs.
Superficial area, 621 s. ft. at Rs. 2 per s. ft.	1,242
Compound wall, 60 r. ft. at Rs. 2 per r. ft.	120
	<hr/>
	1,362
	<hr/>

No. 12, Bhowani Charan Dutt's Street—

Partly two-storeyed :—

First storey, 1,606 s. ft. at Rs. 3 per s. ft.	4,818
Second storey, 1,110 s. ft. at Rs. 2-8 per s. ft.	2,775
Pucca courtyard, 277 s. ft. at as. 8 per s. ft.	138
	<hr/>
	7,731
Less depreciation at 30 per cent.	2,319
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	5,412
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No. 13, Bhowani Charan Dutt's Street—

Nurrea-tiled hut with mud wall and pucca floor :—

Superficial area, 626 s. ft. at as. per 5 s. ft.	196
Pucca courtyard, cement plastered, 109 s. ft. at as. 8 per s. ft.	54
	<hr/>
	250
Less depreciation at 30 per cent.	75
	<hr/>
	175
	<hr/>

Nos. 14 and 14-1, Bhowani Charan Dutt's Street—

Partly two-storeyed :—

First storey, 2,954 s. ft. at Rs. 3 per s. ft.	8,862
Second storey, 919 s. ft. at Rs. 2-8 per s. ft.	2,297
Pucca courtyard, 659 s. ft. at as. 8 per s. ft.	329
Building walls without roof, 58 r. ft. at Rs. 7 per r. ft.	406
	<hr/>
	11,894
Less depreciation at 30 per cent.	3,568
	<hr/>
	8,326

Dilapidated nurrea-tiled hut :—

	Rs.
Superficial area, 220 s. ft. at as. 5 per s. ft.	69
Less depreciation at 50 per cent.	35
	<hr/>
	34
	<hr/>
	8,360

No. 16, Peari Charan Sarkar's Street—

Nurrea-tiled hut with pucca floor and mud walls,

1,214 s. ft. at As. 5 per s. ft.	379
Pucca courtyard cement plastered, 58 s. ft. at as. 8 per s. ft.	29
	<hr/>
	408
Less depreciation at 30 per cent.	122
	<hr/>
	286

No. 16—

Nurrea-tiled hut with pucca floor and mud walls,

1,219 s. ft. at as. 5 per s. ft.	381
Courtyard, tiled, 65 s. ft. at as. 4 per s. ft.	16
	<hr/>
	367
Less depreciation	119
	<hr/>
	278

No. 17-1—

Rs. Rs.

Nurree-tiled hut with mud wall, partly one-storeyed and partly two-storeyed, with partly kutcha floor and partly pucca and partly planked flooring :—

Nurree-tiled first storey, 1,100 s. ft. at as. 4 per s. ft. ...	£75
Second storey, 540 s. ft. at as. 6 per s. ft. ...	202
Pucca one-storeyed with mud floor, 141 s. ft. at Rs. 2 per s. ft. ...	282
Courtyard, tiled, 46 s. ft. at as. 4 per s. ft. ...	11

Less depreciation at 30 per cent. ... 231

539

Total for Structures ... 31,614
Land 22.75 cottahs at Rs. 2,500 per cottah ... 56,875

Add 15 for statutory allowance ... 13,273

Add contingencies at 5 per cent. ... 5,088

Total ... 1,06,850

S. B. MOZUMDAR,

Executive Engineer, 3rd Calcutta Division.

[No. 51.]

[F LE $\frac{4-C}{4}$ 10.]

No. 896, dated Calcutta, the 10th February 1911.

From—THE HON'BLE MR. J. G. CUMMING, I.C.S., Secretary to the Government of Bengal, General Department.

To—The Director of Public Instruction, Bengal.

WITH reference to your letter No. 21128, dated the 21st December 1910, I am directed to communicate the administrative approval of Government to the following projects, in connection with the extension of the Presidency College, at an estimated cost of Rs. 3,10,000, approximate details of which are shown below :—

(1) Construction of a physiological laboratory ...	Rs. 66,595
(2) Construction of a two-storeyed wing to the west of the physical laboratory for the botanical and geological laboratories ...	1,14,175
(3) Acquisition of land to the west of the new physical laboratory for the site of the western wing comprising the botanical and geological laboratories ...	1,06,850
(4) Fittings for the laboratory ...	22,000
Total ...	3,09,620

2. Funds will be allotted on receipt of the grant from the Government of India for non-recurring educational expenditure.

No. 897.

COPY forwarded to the Public Works Department of this Government for information.

By order of the Lieutenant-Governor in Council,

H. A. F. LINDSAY,

Under-Secretary to the Government of Bengal.

CALCUTTA,

GENERAL DEPT.—Education,

The 10th February 1911.

[Nos. 52-53.]

[FILE $\frac{4-C}{4}$ 9.]

No. 448 B., dated Calcutta, the 14th February 1911.

Memo. by—R. C. HONGSOV, Esq., Under-Secretary to the Government of Bengal,
Public Works Department.

COPY of the following forwarded to the General Department of this Government for information, with reference to that department memorandum No. 897, dated the 10th February 1911.

No. 447 B., dated Calcutta, the 14th February 1911.

From—B. K. FINNIMORE, Esq., Secretary to the Government of Bengal, Public Works Department,

To—The Superintending Engineer, Central Circle.

WITH reference to your letter No. 8388, dated the 14th December 1910, I am directed to inform you that administrative approval has been accorded by the General Department in letter No. 896, dated the 10th February 1911, addressed to the Director of Public Instruction, Bengal (copy enclosed), to the (1) construction of a third storey to the physical laboratory, which is now being built at the Presidency College, for the physiological laboratory, (2) construction of a two-storeyed wing to the west of the physical laboratory for the botanical and geological laboratories, (3) acquisition of land for (2) and (4), fittings for the laboratory at a total estimated cost of Rs. 3,10,000.

2. The detailed estimate promised in your letter No. 128, dated the 6th January 1911, for the complete building for all the laboratories, including the above four items, should be submitted at an early date. A draft declaration should be submitted for (3).

3. You are authorised to proceed with item (1) above. The other items should not, however, be commenced till the complete estimate is sanctioned.

4. The approximate estimate and plans submitted with your letter No. 8388, dated 14th December 1910, are herewith returned.

[No. 54.]

[FILE $\frac{4-C}{4}$ 10.]

No. 1252.

COPY of the above forwarded to the Director of Public Instruction, Bengal, for information, in continuation of this department letter No. 896, dated the 10th February 1911.

By order of the Lieutenant-Governor in Council,

H. A. F. LINDSAY,

Under-Secretary to the Government of Bengal.

CALCUTTA;

GENL. DEPT.—Education,
The 23rd February 1911.

[No. 55.]

[FILE $\frac{4-C}{4}$ 11.]

No. 353 T.—G., dated Darjeeling, the 2nd May 1911.

Memo. by—H. A. F. LINDSAY, Esq., I.C.S., Under-Secretary to the Government of Bengal, General Department,

To—The Secretary to the Government of Bengal, Public Works Department.

IN continuation of this department endorsement No. 897, dated the 10th February 1911, the undersigned is directed to say that the Financial Department of this Government has been requested to transfer to the Public Works Department the sum of Rs. 98,243-8-1, being the estimated cost of the acquisition of the additional land required for the extension of the physics laboratory of the Presidency College, out of the lump provision of Rs. 12,00,000 for non-recurring expenditure in the Education Budget estimates for 1911-12.

No. 384 T.—G.

COPY of the above forwarded to the Financial Department of this Government for information and necessary action.

By order of the Lieutenant-Governor in Council,

H. A. F. LINDSAY,

Under-Secretary to the Government of Bengal.

DARJEELING,

The 2nd May 1911.

[Nos. 56-57.]

[FILE $\frac{4-C}{4}$ 12.]

No. 298 T.—F., dated Darjeeling, the 10th May 1911.

Memo. by—E. L. TANNER, Esq., I.C.S., Under-Secretary to the Government of Bengal, Financial Department.

COPY of the following forwarded to the General Department for information, with reference to that department endorsement No. 384 T.—G., dated the 2nd May 1911, and with the intimation that the Director of Public Instruction, Bengal, has been informed.

No. 295 T.—F., dated Darjeeling, the 10th May 1911.

Memo. by—E. L. TANNER, Esq., I.C.S., Under-Secretary to the Government of Bengal, Financial Department,

To—The Secretary to the Government of Bengal, Public Works Department.

IN continuation of memorandum No. 383 T.—G., dated the 2nd May 1911, from the General Department of this Government, the undersigned is directed to convey sanction to an additional grant of Rs. 98,243-8-1 only to the Public Works Department during the current financial year, to meet the cost of acquisition of additional land required for the extension of the physics laboratory of the Presidency College.

[Nos. 58-59.]

[FILE $\frac{4-C}{4}$ 13.]

No. 234 T.—B., dated Darjeeling, the 13th May 1911.

Memo. by—R. C. HODGSON, Esq., Under-Secretary to the Government of Bengal, Public Works Department.

COPY of the following forwarded to the General Department of this Government for information, with reference to the memorandum from that department No. 897, dated the 10th February 1911.

No. 228 T.—B., dated Darjeeling, the 13th May 1911.

From—R. C. HODGSON, Esq., Under-Secy. to the Govt. of Bengal, P. W. Dept.,
To—The Superintending Engineer, Central Circle.

WITH reference to your letter No. 2884, dated the 12th April 1911, I am directed to communicate sanction to the estimate amounting to Rs. 98,243-8-1 of the cost of the acquisition of the land required for the proposed extension of the physics laboratory, Presidency College, Calcutta.

2. The amount required will be allotted later on.
3. The Revenue Department of this Government will be asked to publish the declaration in respect of the acquisition of the land in the next issue of the *Calcutta Gazette*.
4. A certified plan of the land as actually acquired and made over to this department should be forwarded to this office for record.
5. The estimate and land plan are herewith returned.

[Nos. 60-61.]

[FILE $\frac{4-C}{4}$ 14.]

No. 418 T.—A., dated Darjeeling, the 17th May 1911.

Memo. by—R. C. HONGSON, Esq., Under-Secy. to the Govt. of Bengal, P. W. Dept.

COPY of the following forwarded to the General Department of this Government for information, with reference to that department memorandum No. 383 T.—G., dated the 2nd May 1911.

No. 415 T.—A., dated Darjeeling, the 17th May 1911.

From—R. C. HONGSON, Esq., Under-Secy. to the Govt. of Bengal, P. W. Dept.,
To—The Superintending Engineer, Central Circle.

IN continuation of this office letter No. 228 T.—B., dated the 13th May 1911, I am directed to allot Rs. 98,243-8-1 for expenditure during the current financial year on the acquisition of additional land required for the extension of the physics laboratory, Presidency College, Calcutta.