

# Government of Madras.

EDUCATIONAL DEPARTMENT.

*Recd.*

*Regd.*

} 1907.

*Enclosures*

*Spare copies*

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G.O., No. 236, 24th April 1907.

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Medical College, Madras.

Approving the proposal of the Director of Public Instruction for the construction of Physiological and Hygiene laboratories for the — at an estimated cost of Rs. 1,70,130.



[E.] *Kew*  
000-10-1-00.  
Educational (1907) Department.

ORDINARY PRINTED.

G.O., No. 236

DATED 24-4-7

*Issue in two parts*

[Despatch Abstract.]

Medical College, Madras

for the Approving the proposal  
of the D.P.I. to construct <sup>in of</sup> Physiological and  
Hygiene laboratories for the — at an esti-  
mated cost of Rs 1,70,130 in accordance with  
the plans forwarded by him.



# BACK PAPERS.

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## Government of Madras.

### EDUCATIONAL DEPARTMENT.

Recd.

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Enclosures

Spare copies

G.O., No. 236, 24th April 1907.

Medical College, Madras.

Approving the proposal of the Director of Public Instruction for the construction of Physiological and Hygiene laboratories for the — at an estimated cost of Rs. 1,70,130.



## GOVERNMENT OF MADRAS.

## EDUCATIONAL DEPARTMENT.

READ—the following paper :—

*Letter*—from the Hon'ble Mr. A. G. BOURNE, D.Sc., F.R.S., Director of Public Instruction.

*To*—the Secretary to Government, Educational Department.

*Dated*—the 9th May 1906.

*No.*—Ref. on Cur. 2931.

In continuation of my letter R. on C. No. 9246/04, dated 12th November 1904, I have the honour to submit herewith plans and estimate for the proposed Physiological and Hygiene laboratories for the Medical College and to request that they may be approved and transferred to the Public Works Department.

**Order—No. 236, Educational, dated 24th April 1907.**

The proposal of the Director of Public Instruction for the construction of Physiological and Hygiene laboratories for the Medical College, Madras, at an estimated cost of Rs. 1,70,130, in accordance with the plans forwarded with his letter read above, are approved. The work will, however, be carried out as and when funds are available.

2. Further orders on the plans and estimates will issue in the Public Works Department.

(True Extract.)

H. D. TAYLOR,  
Ag. Secretary to Government.

To the Director of Public Instruction.  
Public Works Department, with plans and estimates.

## EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O., No. 236, EDUCATIONAL,  
DATED 24TH APRIL 1907.

[SUBJECT.—Plans and estimates for the proposed Physiological and Hygiene laboratories for the Medical College, Madras.]

*From the Director of Public Instruction, dated 9th May 1906, No. 2931.*

In his letter No. 442, dated 16th January 1902, on page 3 of G.O., No. 418, Educational, dated 22nd July 1902, the Principal of the Medical College (Colonel W. R. Browne, I.M.S.) requested the Director of Public Instruction to obtain sanction to the extension of the existing Hygiene laboratory of the college. He said he was satisfied that the present laboratory was not only not quite suitable on scientific grounds but was also insufficient for the increasing use to which it was to be put, that it was built at a time when bacteriology was not taught at the college and when it was but little contemplated that the work to be carried on within it would extend as much as it had done and it was not anticipated that the strength of the class using the laboratory would be as large as it had become and that when the scheme for bacteriological investigation was finally sanctioned and put in full working order a corresponding increased accommodation and equipment would become necessary to meet up-to-date demands.

\* Pages 600, 603 and 611 of the University calendar for 1897-98, compared with pages 199 and 109.

† Strength at the close of 1894-95, 33-21 (page 6 of G.O., Nos. 810-11, dated 7th October 1895).

‡ Strength at the close of 1904-1905, 60-99 (page 3 of G.O., Nos. 536-537, dated 7th August 1905).

§ The L.M. & S. course is a four years' course, and the M.B. & C.M. a five years' course—No. 5 of the Educational rules.

2. Bacteriology was added to the subjects \* prescribed for the L.M. & S. and M.B. & C.M. degrees in 1900 and 1901, respectively, and the strength of the L.M. & S. class has risen during the last ten years from 33 † to 60 ‡ and of the M.B. & C.M. class from 21 † to 99 ‡. Of the latter numbers § a fourth and a fifth may, on an average, be taken to be the strength of the third year L.M. & S. and the fourth year M.B. & C.M. classes in which Bacteriology is taught.

3. The Surgeon-General also thought that the laboratory required extension and increased equipment,—Director's letter with G.O., No. 418, Educational, dated 22nd July 1902. The proposal was accordingly approved in this Government order and the Public Works Department was requested to issue orders for the preparation of the necessary plans and estimates. The Public Works Department in turn requested the Consulting Architect to submit the necessary plans and estimates—G.O., No. 2170 W., dated 7th August 1902, read with G.O., No. 468, Educational, dated 11th August 1902.

4. In August 1902 the Professor of Physiology (Major Crawford, I.M.S.) asked for increased accommodation for the practical teaching of Physiology. He observed that the strength of the class in Physiology had increased from 34 in 1893-94 to 84 in 1902-1903, that the latter number completely filled the lecture theatre during the theoretical course but that during the practical course there would not be sufficient accommodation for the class and that



it would be necessary to divide the class into three sections, there being room for only 30 students to study practical and chemical physiology at a time in the theatre and laboratory. This arrangement, the Professor observed, entailed great loss of time both for students and professor as the same subject-matter must be gone over on three different occasions every week. The strength of the class in 1904-1905 appears to have been 87, the total number of second year students as given in pages 3 and 4 of G.O., Nos. 536-37, Educational, dated 7th August 1905.

5. The Principal is reported to have stated in this connection that if the additional laboratory accommodation for the Hygiene department approved in G.O., No. 418, Educational, dated 22nd July 1902, and for the Physiology department then applied for be thoughtfully carried out, there would probably be no further cause for similar demands for many years to come—*vide* Director's letter read with G.O., No. 690, Educational, dated 6th November 1902.

6. In G.O., No. 690, Educational, dated 6th November 1902, accordingly the proposal to provide increased accommodation for the Physiological laboratory was approved and the Public Works Department requested to arrange for the preparation of the necessary plans and estimates. The Public Works Department then called on the Consulting Architect to submit the necessary plans and estimates—G.O., No. 3243 W., dated 19th November 1902.

7. The Director of Public Instruction *now* forwards plans and estimates for the proposed Physiological and Hygiene laboratories prepared by the Consulting Architect "after several communications and conferences with the authorities concerned." It is proposed to construct a two-storied building with accommodation on the ground floor for the Hygiene laboratory and store-room, model-room, Assistant Professor's room, Professor's room, preparation room, culture room and dark room, connected therewith—and on the upper floor for the Physiological laboratory and theatre, store-room, Professor's room, operation room, Assistant Professor's room and room for animals, connected therewith. The estimate for the work comes to Rs. 1,70,130. There is nothing to show what is to be done with the existing laboratories and other rooms used by the classes for which accommodation is to be newly provided. Should information on this point be called for? If not, it is for consideration whether the plans and estimates may be approved and transferred to the Public Works Department. There is no provision for the work in the current year's budget; but the work appears under class B works—*vide* No. 246 on page 70.

P. T. THARYAN—30-6-06.

C. A. SOUTER—2-7-06.

Will the Director of Public Instruction please say how it is proposed to utilise the existing lecture rooms and laboratories, should the proposed building be erected?

H. D. TAYLOR—3-7-06.

*To the Director of Public Instruction.*

The Principal's proposal is to use the present Hygiene rooms for Pharmacology, the present provision for which is quite inadequate and the present Physiology rooms for Pathology.

A. G. BOURNE—8-7-06.

EDUCATIONAL DEPARTMENT.

The plans and estimates (Rs. 1,70,130) may be approved and transferred to the Public Works Department for scrutiny and sanction, and for execution when funds become available.

H. D. TAYLOR—9-7-06.

This magnificent building is all very well, but is it not designed as if it were to be erected at Oxford or Cambridge at the cost of the richest nation in the world instead of for the use of a subordinate medical service at the cost of a comparatively poor body of tax payers?

2. With these designs for medical and scientific departments we have no satisfactory guarantee that the financial problem has been sufficiently studied. Mr. Harris is in the hands of the medical experts who naturally aim at getting the finest possible laboratories.

3. On the other hand we are little able to criticize. If we had unlimited money I should be delighted to approve.

4. This might go to the Financial Department first with the request whether they are prepared to accept the plans as they are or would like further enquiry to be made as to the furnishing of cheaper designs.

G. S. F[ORBES]—9-7-06.

*To the Financial Department.*

FINANCIAL DEPARTMENT.

The estimate for constructing buildings for laboratories for the Medical College, Madras, amounts to 1.70 lakhs. In another case regarding the general demands on the Financial department it has been noted that funds for this work will be found, if possible, later on when the plans and estimates are sanctioned by the Public Works Department. Meanwhile the item will be noted in the "claims" register.

2. The Educational Department ask Financial whether the plans and estimates as now prepared may be accepted or whether cheaper designs should be called for.

A.H.—15-7-06.

The plans are rather startling and the expenditure (1.70 lakhs) more so. It is submitted that this department may ask for a cheaper design.

C. M. SCHMIDT—21-7-06.

It may be possible to economise outside in the way of ornaments and perhaps rooms might be made smaller, but I doubt whether much can be knocked off. It is absolutely necessary especially in this climate in laboratories of this kind to take such careful precautions against the lodgement of dust and dirt that they cannot, I imagine, be built on the cheap.

M. HAMMICK—23-7-06.

There is no hurry about this, and I think it had better stand over till we return to Madras as personally I have not sufficient knowledge of the Medical College and its working to settle the matter now. I propose this because this is only the thin edge of the wedge. When we have these buildings we shall have demands for new professors as the classes are too large and so on. I am much in favour of extending and encouraging medical education. There are few ways in which we can give the people back their money better than in affording them medical relief; for although our dispensaries and hospitals are very kutcha, still they afford an immense amount of relief to suffering. The proposals now put forward strike me as being obviously too large for present needs. But before objecting to them I want to see a little way ahead. We can probably find the money, but that is not the only consideration: and

\* Leave expires, 5th November 1906.

† Leave expires, 10th November 1906.

H. D. TAYLOR.

I would like to discuss the matter with the Surgeon-General Colonel Browne\* and Browning† who know thoroughly the working of the Medical College.

G. S[ORBES]—26-7-06.

May lie over accordingly.

G. S. F[ORBES]—28-7-06.

The Educational Department had better bring up papers in Madras.

M. HAMMICK—30-7-06.

*To the Educational Department.*



## EDUCATIONAL DEPARTMENT.

Put up papers on 1st November please.

H. D. TAYLOR—1-8-06.

Submitted.

P. T. THARYAN—31-10-06.

C. G. MACKAY—31-10-06.

Recirculated.

H. D. TAYLOR—2-11-06.

Mr. Stokes and I intended to visit the site and inquire into the proposals on the spot, but no opportunity presented itself before Mr. Stokes left.

2. I had some talks with the Surgeon-General on the question of reduction of the cost of the scheme; and ultimately I asked him to take the plans and estimates and see whether he was able to recommend any restriction of the proposals.

3. He has now replied in the following letter enclosing one from Dr. Browning, the Head of the Medical College:—

*Demi-official from Surgeon-General W. R. Browne, M.D., C.I.E., V.H.S., I.M.S., Surgeon-General with the Government of Madras, to the Hon'ble Mr. G. S. Forbes, C.S.I., dated 18th March 1907, No. 91.*

I took the plans and estimates down to the Medical College and went over the ground with Browning and Foulkes and then left the papers with them so that the question of accommodation might be fully gone into all over again. The result is that Browning states—as you will see in his letter attached—that he cannot recommend any reduction in the amount of accommodation the proposed buildings provide. My own idea was to build one laboratory and to add the upper one whenever funds would admit and Harris tells me this would mean a lessening of the estimate by three-eighths, roughly speaking, but of course the arrangements for teaching would have to remain of the very make-shift character they are at present and so I am driven to advocate the larger expenditure the present estimates necessitate. The total of course is a big one but the whole tendency of the teaching of to-day is towards practical work in laboratories and everywhere more and more laboratory accommodation is being provided and there can be no doubt this proposed building will do much to bring our College up to the general modern level and I must therefore beg for your favourable consideration of this expenditure.

*Demi-official from Lieut.-Col. W. B. Browning, I.M.S., to the Surgeon General, with the Government of Madras, dated 15th March 1907.*

I return the plans and estimates of the proposed Physiology and Hygiene laboratory. These were handed over as you know to the Acting Professor of Physiology with a view to his seeing how far he could recommend some modification so as to reduce the cost and he was to discuss the matter with the Acting Hygiene Professor—he was, I may add, also assisted by Captain Kirkpatrick.

2. These plans, etc., were all arranged before I came into office as you know. I approach the subject with a general feeling that at first sight the buildings are unnecessarily large for two departments and that some reduction could be made.

3. Major Foulkes in returning the plans stated that he could not see his way to recommending any change so far as his department was concerned and in going into the matter I find myself bound to support this view.

4. The size and cost of the building chiefly centres I think, around the large rooms  $80' \times 80'$  and starting with a sort of working hypothesis of mine that the depth of the building might be reduced  $\frac{1}{4}$  so as to have these rooms  $80' \times 60'$ , I found the following objections:—

If the buildings were reduced all through by this quarter it would not mean a corresponding reduction in cost, it would not even mean a saving of one-fifth inasmuch as the fittings which are included in the estimates would remain the same. Again the

Physiological laboratory if so rearranged ( $80' \times 60'$ ) would accommodate only 92 students. Our present class average about eighty so that there would be practically no room for further expansion, which appears to be inevitable during the next generation. The accommodation of the reduced room is calculated as follows:—

Each window of which there would be 23 would accommodate two students at microscopic work,  $23 \times 2 = 46$ . Inside these there would be a second row of 46 students making a total of 92—the centre of the rooms would be occupied by the chemical stands. In the present plans  $80 \times 80$  there would be room for a possible class of 138 as three rows could be accommodated. I find that this would be workable inasmuch as the Physiology class, work only as a rule with the low powers, one-sixth, and do not therefore require as much light as they would if working with the high powers.

5. The above in brief amounts to this that the reduction of the building by one-fourth from the physiological point of view would mean only providing for present-day requirements and the saving roughly Rs. 34,000 is not such a considerable sum that it should weigh against the ultimate loss in efficiency.

6. Coming now to the hygiene floor, I find that it is certainly too big as arranged on present lines. This department would easily do with a building  $80 \times 60$  and this would allow for considerable expansion; but the two departments, if in the one building (which they must be both on the financial grounds and from want of ground space) must be the same size. We could not erect a small building on the top of the larger. It occurs to me however that the hygiene department would well utilize the full space of the present plans by including a hygiene museum which would be a desirable addition to this department. This would require some modification of this floor as shown in the present plans. Several of the smaller rooms being thrown into one. On this subject, perhaps Cornwall would advise you, but public health is such an important and daily growing subject that no one can say what the requirements may be twenty years or less hence.

7. The general conclusion I come to therefore is that no reduction in the size of the present proposed buildings is advisable and therefore no saving can be effected. Indeed I would go a step further and suggest that if the building is erected on these present plans the Consulting Architect be directed to arrange the foundations so that in future year a third story could be added if required. More buildings will, I have, no doubt be required in the next generation and there is no ground available.

So long as they have the public purse to dip into we cannot expect from the Medical department any attempt at economy, so far as I have ever seen. Their endeavour is to get for their institutions the same facilities and conveniences and not only necessities, that only two or three similar institutions in England, the richest country in the world, can procure only after years of collecting funds.

2. That laboratories are wanted is not denied, but they might in my opinion be constructed on a much cheaper design. However I have no technical knowledge to counter the demands of the doctors and as I am weary of the strife, in which they are sure to win, I can only record my reluctant assent to the plans and estimates, as submitted, to be carried out as funds are available.

G. S. F[ORBES]—21-3-07.

I agree that this estimate may be sanctioned to be carried out when funds are available. Granted that new buildings are necessary. I am not sure that it is not the best thing to make them complete and up to date even at a comparatively heavy cost. I don't know when money will be available—it must be remembered that the new buildings for the Engineering cost at Saidapet will have to be provided shortly—and I imagine the cost of that move will run us into some lakhs of rupees. The rapid advances now made in the sciences of health and medicine will involve constant new demands for buildings and fittings.

M. H[AMMICK]—22-3-07.

Please draft for approval.

H. D. TAYLOR—23-3-07.



The draft placed below is submitted for approval.

P.R.—26-3-07.

K. RANGASWAMI AIYANGAR—26-3-07.

C. A. SOUTER—27-3-07.

H. D. TAYLOR—28-3-07.

*To the Financial Department*  
*„ Public Works Department* } for acceptance.

#### FINANCIAL DEPARTMENT.

Public Works Department has a large grant this year and as these laboratories are to be constructed that department will probably be glad to meet the expenditure of 1.70 lakhs this year.

It seems desirable that enquiry should be made about the new buildings for the Engineering College at Saidapet to which the Hon'ble Mr. Hammick refers in his note of the 22nd March. This is another scheme which, if it is to be carried out, the Public Works Department will probably welcome as an outlet for expenditure this year and that department will doubtless make further enquiries, if necessary, of Educational.

C. M. SCHMIDT—3-4-07.

The draft is accepted and the papers may be sent on to Public Works Department.

H. BRADLEY—4-4-07.

*To the Public Works Department.*

#### PUBLIC WORKS DEPARTMENT.

The draft order may be accepted.

2. Until the demands for incomplete works of last year have been met, it cannot be said whether money can be spared for the present work. Information is not yet available as to the requirements for incomplete works. When the estimate for the laboratories has been scrutinized and is ready for sanction, the financial position in this department will perhaps have become clearer and the question of funds for the work may then be considered.

3. The above remarks also apply to the new buildings for the Engineering College at Saidapet; but there seems to be no probability of funds being required for this scheme during the current year as the details of the scheme have not been settled yet, i.e., how far the existing buildings at Saidapet can be utilised and what further accommodation will be required for the College of Engineering.

R.K.—6-4-07.

P. K. SUBBA AIYAR—7-4-07.

Draft accepted.

A. G. ROMILLY—8-4-07.

*To the Educational Department.*

#### EDUCATIONAL DEPARTMENT.

Please type and draft and circulate to Honourable Member for approval.

H. D. TAYLOR—9-4-07.

Typed and circulated.

K. RANGASWAMI AIYANGAR—9-4-07.

G. S. F[ORBES]—22-4-07.

Issue.

H. D. TAYLOR—24-4-07.

[G.O., No. 236, Educational, dated 24th April 1907.]

# CURRENT FILE.

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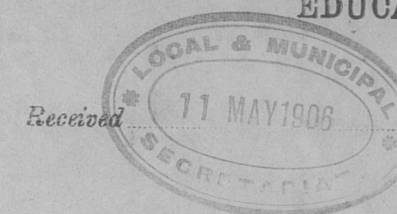
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Ed CURRENT No. 790

EDUCATIONAL DEPARTMENT.



Received 11 MAY 1906 190 , Registered 11-52 190 6

Subject.

Submitting for favour of approval and transfer to the P.W.  
Department plans and estimate for the proposed Physiological and  
Hygiene laboratories for the Medical College.

### ENCLOSURES.

No.

Spare copies

Ref. on. for No. 293 of 06

Station Madras , Dated the 9<sup>th</sup> May 1906.

From (Name) The Hon'ble Mr. A.G. Bourne, D.Sc., F.R.S.,

(Designation) Director of Public Instruction.

To The Secretary to the Government of Madras,  
Educational Department.

Sir,

In continuation of my letter R. on C. No.

XV 9246/04 dated 12th November 1904 I have the honour to submit  
herewith plans and estimate for the proposed Physiological and  
Hygiene laboratories for the Medical College and to request that  
they may be approved and transferred to the P.W. Department.

I have the honour to be,

Sir,

Your most obedient servant,

*A. H. S. Chinn*

For Director of Public Instruction.

K.P.D.

*B.P.*  
8-5-06



[ E. ]

500-1-12-01.

# NOTES.

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*Not 236 80 6 7  
24-5-07.*



[Notes connected with G.O. no. 2363 of 24-4-07.]

EDUCATIONAL DEPARTMENT.

C. No. 790 From the D.P.P.

No. 2931, dated 9-5-1906

SUBJECT.

Plans and Estimates for the proposed Physiological and Hygiene Laboratories for the Medical College, Madras.

In his letter no 442 of 16<sup>th</sup> January 1902 on page 3 of G.O. no 418 of 24<sup>th</sup> July 1902 the Principal of the Medical College (Mr. W. R. Brown) requested the D.P.P. to obtain sanction to the extension of the existing Hygiene Laboratory of the College. He said he was satisfied that the present laboratory was not only not quite <sup>at</sup> suited to scientific grounds but was also insufficient for the increasing use to which it was to be put, that it was built at a time when Bacteriology was not taught at the College and when it was but little contemplated that the work to be carried on in it would extend as much as it had done and it was not anticipated that the strength of the class using the laboratory would be as large as it had become and that when the scheme for bacteriological investigation was finally sanctioned and put in full working order a corresponding increased accommodation and equipment would become necessary to meet up to date demands.

2. Bacteriology was added to the subjects prescribed for the L.M.S. and M.D. + L.M. degrees in 1900 + 1901 respectively. ~~Under the existing scheme~~ and the strength of the L.M.S. class has risen ~~during the last 10 years~~ from 33 to 60 and the M.D. + L.M. class ~~has risen during the last 10 years~~ from 21 to 99. Of the latter number <sup>fourth and a</sup> fifth may on an average be taken to be the strength of the third year L.M.S. + the fourth year M.D. + L.M. classes in which Bacteriology is taught.

3. The Surfer General also thought that the laboratory required extension and increased equipment. ~~From~~ Director's letter with G.O. no 418 of 24<sup>th</sup> July 1902. The proposal was accordingly

Press  
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proof. names sh. 5. 6  
printed in full.

3/8/06

603  
\* Pages 603 & 611 of the University  
calendar for 1897-98 compared  
with that of 1899-1900.  
+ Strength at the close of 1894-1895. 33-21  
(Page 604, 810-811 of 7-10-95)  
\* Strength at the close of 1904-1905. 60-99 +  
(Page 388, 536-537 of 7-8-05)

(\*) The L.M.S. course is a four  
year course & the M.D. + L.M.  
a five year course. No 57  
the G.O. Rules.



the PWD was requested to issue  
approved in this 80. and ~~then stated that~~ orders for the preparation  
of the necessary plans & estimates, would be passed in the  
P.W.D. The P.W.D. in turn requested the Consulting  
Architect to submit the necessary plans & estimates - 80.  
No 2170 W dt 7<sup>th</sup> August 1902 read with 80. No 468 E dt  
dt 11<sup>th</sup> August 1902.

4. In August 1902 the Professor of Physiology <sup>(Mr Crawford)</sup> asked  
for increased accommodation for the practical teaching of  
Physiology. He observed that the <sup>(strength of the)</sup> class in Physiology had  
increased from 34 in 1893-94 to 84 in 1902-03, that the latter  
number completely filled the lecture theatre during the  
theoretical course ~~and~~ but that during the theoretical course  
there would be not be sufficient accommodation for the class  
and that it would be necessary to divide the class into three  
sections, three being room for only 30 students to study  
practical and chemical physiology at a time in the theatre  
and laboratory. This arrangement, the Professor observed,  
entailed great loss of time both for students and Professor  
as the same subject matter must be gone over on three  
different occasions every week. The strength of the class

in 1904-05 <sup>appears to have been 87 - the total number of second year</sup>  
students given in pages 304 & 88. No 536-537 E dt 7<sup>th</sup> August 1905.

5. The Principal is reported to have stated in this  
connection that if the additional laboratory accommodation  
for the Hygiene department approved in 80. No 418 E dt 22<sup>nd</sup>  
July 1902 and for the Physiology department then applied for  
be thoughtfully carried out there would probably <sup>be</sup> no further  
cause for similar demands for many years to come - vide  
Director's letter read with 80. No 690 E dt 6<sup>th</sup> November 1902.

Letter on pages 304 & 88.  
No 690 E dt 6<sup>th</sup> Nov<sup>r</sup> 1902 E/



E/ 6. In G.O. no 690 dt 6<sup>th</sup> November 1902 accordingly the proposal to provide increased accommodation for the Physiological laboratory, was approved & the P.W.D. requested to arrange for the preparation of the necessary plans & estimates. The P.W.D. then called on the Consulting Architect to submit the necessary plans & estimates - G.O. no 3243 W dt 19<sup>th</sup> November 1902.

7. The O.P.D. now forwards Plans & Estimates for the proposed Physiological & Hygiene laboratories prepared by the Consulting architect "after several communications and conferences with the authorities concerned". It is proposed to construct a two storied building - with accommodation on the ground floor for the Hygiene laboratory & the store room, model room, Assistant Professor's room, Professor's room, preparation room, Culture room, Dark room, connected therewith - and on the upper floor for the Physiological laboratory ~~and~~ and theatre, store room, Professor's room, operation room, Assistant Professor's room, room for animals, connected therewith. The estimate for the work comes to Rs 170,130. There is nothing to show

what is to be done with the existing laboratories & other rooms, used by the classes for which accommodation is to be newly provided. Should information on this point be called for? If not, it is

for consideration whether the plans & estimates may be approved & transferred to the P.W.D. There is no provision for the work in the current year's budget; but the work appears

PH under class B works - vide no 246 on page 70.

30/1/06

Lee  
Oes  
2.7.06

Page 2 of current.

Page 3 of current

Page 45 of current



*[Faint, illegible handwriting visible through the paper.]*

A circular ink stamp from the 'LOCAL &amp; MUNICIPAL SECRETARIAT.' The text 'LOCAL &amp; MUNICIPAL' is curved along the top inner edge, and 'SECRETARIAT.' is curved along the bottom inner edge. In the center, the date '9 - JUL 1908' is stamped. Two small five-pointed stars are positioned on the left and right sides, separating the top and bottom text.

to credit  $\frac{406}{37-00}$   
D.D. no.

The plans submitted (R 170/30) may be approved and referred to PWD for scrutiny & sanction - for execution when funds become available.

This magnificent building is all very well, but is it not designed as if it were to be erected at Oxford or Cambridge at the cost of the richest nation in the world instead of for the use of a subordinate medical



See  
W. Harris  
estimate  
W.

65

W 5 P

service at the cost of a comparatively poor body of taxpayers?

With these designs for the medical & scientific departments we have no satisfactory guarantee that the financial problem has been sufficiently studied. ~~Particularly~~ ~~about~~ W. Harris is in the hands of the medical experts who naturally aim at getting the finest possible laboratories.

On the other hand we are little able to criticize. If we had unlimited money I ~~shd.~~ be delighted to approve.

This might go to Faculty first with the request whether they are prepared to accept the plans as they are or w<sup>d</sup>. like further enquiry to be made as to the furnishing of cheaper designs.

J. L. S. 9/8/06

Fin. L. C. O.

10-7-06

Exp. no. 4972  
10-7-06





Recd  
21.7.06

CURRENT NO.  
3020  
FINANCIAL

Regd-10-4/6

Vide report on  
page 2 of CF.

noted  
21.7.06

The estimate for constructing buildings for laboratories for the Medical College, Madras, amounts to 1.70 lakhs. In another case regarding the general demands on the Finl. dept. it has been noted that funds for this work will be found, if possible, later on when the plans & estimates are sanctioned by the P.W.D. Meanwhile the item will be noted in "Claims" register.

2. Educational ask Finl. whether the plans & estimates as now prepared may be accepted or whether cheaper design should be called for. ~~It is suggested that the estimate of 1.70 lakhs may be reduced in consultation with the P.W.D.~~

21.7.06  
CS

The plans are rather startling & the expenditure (1.70 lakhs) more so. It is



submitted that this Sept may ask  
for a cheaper ~~monumental~~ design

Cms  
21. 7. 06

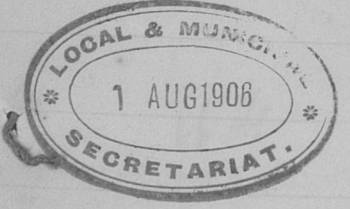
It may be possible to economize in the way  
of ornaments. & perhaps rooms might be  
made smaller - but I doubt whether mass  
can be knocked off. It is absolutely necessary  
especially in the clinical & laboratory of  
this kind to take such careful precautions  
against the lodgment of dust & dirt - that  
they cannot imagine be too built on  
the cheap -

h  
23. vii 06

There is no hurry about this, and I think  
it had better stand over till we return to  
London as personally I have not sufficient  
knowledge of the Medical College and its  
working to settle the matter now. I suppose  
this because this is only the thin edge of the  
work. When we have these buildings we  
shall have thousands of men pursuing as  
the classes are too large & too small. I am much  
in favour of extending & increasing medical  
education. There are few ways in which we  
can give the people back their money better



BOX No. 47  
C. 27. 7. 06  
R 36. 7. 06



in affording them medical relief for all though  
our Dispensaries & hospitals are very numerous  
still they afford an immense amount of  
relief to suffering. The proposals have not  
forward. These are being obviously too  
large for present need. What before reporting  
to them I want to be a little way ahead.  
We can probably find the money but that  
is not the only consideration and I wish  
to discuss the matter with the L.C. Col. Thomson  
and Mr. Haining who knows thoroughly the work  
of the medical College.

over whether he was able to  
recommen 26/7/06.

Mr. W. D. Jones

Mr.  
24. vii

May be over and

87+28

notes in claims  
reg?  
20/7/06

Educational had  
better bring up papers in the foras.

File no. 3020-18/30. vii. 08.

File

Ed no.

26. vii. 08.

Put up to p. on 1st November please  
HAY  
1. 8. 08



4

to the 2nd I intended to visit  
 the site & inquire into the  
 proposals on the spot: but no  
 opportunity presented itself  
 before Mr. Stokes left.

Also some talks with  
 the Staff General on the  
 of reduction of the cost of the  
 scheme: & ultimately I asked  
 him to take the plans & estimates  
 over whether he was able to  
 recommend any restriction of  
 the proposals.

He has now replied  
 in the following letter enclosing  
 one from Dr. Browning the  
 Head of the Medical College

4 10

10 48

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Heave  
type these

Notes

8/1

20/3

(Here enter the  
D.O.s tacked on)



D. O. No. 91



115

Kungumbrankun  
March 18<sup>th</sup> 1907

Dear Forbes

I took the plans and estimates down to the Medical College and went on the ground with Browning and Forbes and then left the papers with them so that the question of accommodation might be fully gone into all over again. The result is that Browning states - as you will see in his letter attached. that he cannot recommend any reduction in the amount of accommodation the proposed buildings provide. My own idea was to build one laboratory and to add the upper one whenever funds would admit and Harris



12  
tells me this would mean a  
lessening of the estimate by  
three-eighths, roughly speaking - but  
of course the arrangements for heating  
would have to remain of the very  
make-shift character they are at  
present - and so I am driven to  
advocate the larger expenditure  
the present estimates necessitate.  
The total of course is a big one  
but the whole tendency of the teaching  
of to-day is towards practical work  
in laboratories and everywhere  
more and more laboratory accom-  
modation is being provided - and  
there can be no doubt this proposed building  
will do much to bring our college up  
to the general modern level and  
I must therefore beg for your favorable

17  
consideration of this expenditure.

Yours sincerely  
W. H. Browne



D.O.

Government General Hospital,  
Dated 15th March 1907.

My dear Surgeon-General,

I return the plans and estimates of the proposed Physiology and Hygiene laboratory. These were handed over as you know to the Acting Professor of Physiology with a view to his seeing how far he could recommend some modification so as to reduce the cost and he was to discuss the matter with the Acting Hygiene Professor- he was, I may add, also assisted by Captain Kirkpatrick.

These plans etc. were all arranged before I came into office as you know. I approach the subject with a general feeling that at first sight the buildings are unnecessarily large for two departments and that some reduction could be made.

Major Foulkes in returning the plans stated that he could not see his way to recommending any change so far as his department was concerned and in going into the matter I find myself bound to support this view.

The size and cost of the building chiefly centres I think, around the large rooms 80' X 80' and starting with a sort of working hypothesis of mine that the depth of the building might be reduced  $\frac{1}{4}$  so as to have these rooms 80' X 60'. I found <sup>the</sup> following objections:-

If the buildings were reduced all through by this quarter it would not mean a corresponding reduction in cost- it would not even mean a saving of  $\frac{1}{5}$  inasmuch as the fittings which are included in the estimates would remain the same. Again the Physiological laboratory if so rearranged (80' X 60') would accommodate only 92 students. Our present class average about eighty so that there would be practically no room for further expansion- which appears to be inevitable during the next generation. The accommodation of the reduced room is calculated as follows:-

Each window of which there would be 23 would accommodate two students at microscopic work,  $23 \times 2 = 46$ . Inside these there would be a second row of 46 students making a total of 92- the

centre



715

centre of the rooms would be occupied by the chemical stands. In the present plans 30 X 30 there would be room for a possible class of 133 as three rows could be accommodated. I find that this would be workable in as much as the Physiology class, work only as a rule with a low powers,  $1/6$ , and do not therefore require as much light as they would if working with <sup>the</sup> high powers.

The above in brief amounts to this that the reduction of the building by  $\frac{1}{4}$  from the Physiological point of view would mean only providing for present day requirements and the saving roughly Rs. 34,000/- is not such a considerable sum that it should weigh against the ultimate loss in efficiency.

Coming now to the Hygiene floor I find that it is certainly too big as arranged on present lines. This department would easily do with a building 30 X 60 and this would allow for considerable expansion- but the two departments if in the one building ( which they must be both on the financial grounds and from want of ground space) must be the same size. We could not erect a small building on the top of the larger.

It occurs to me however that the Hygiene Department <sup>would</sup> will well utilize the full space of the present plans by including a Hygiene Museum which would be a <sup>desirable</sup> ~~great~~ addition to this department.

This would require some modification of this floor as shown in the present plans. Several of the smaller rooms being thrown into one. On this Subject, <sup>perhaps</sup> Cornwall would advise you but public health is such an important and daily growing subject that no one can say what the requirements may be 20 years or less hence.

The general conclusion I come to therefore is that no reduction in the size of the present proposed buildings is advisable and therefore no saving can be effected. Indeed I would go a step further and suggest that if the building is erected on these present plans ~~that~~ the Consulting Architect be directed to arrange the foundations so that in future years a  
third

to 16

78

2.

story could be added if required. More buildings will, I have, no doubt, be required in the next generation and there is no ground available.

*Y. S. Michael*  
I have the pleasure to inform you that we cannot expect from the Medical Department any attempt to borrow money so far as I have seen their endeavours is to get for their institutions the facilities & conveniences which are only necessities, that only one or three similar institutions in England, the richest country in the world, can supply the only other great object of their funds.

That laboratory is not desired, but in my time, to be built on a much cheaper scale. However, I have no knowledge to counter the view that a new building of the sort is required.



to have as they have the public  
purse to dip into we cannot  
expect from the medical Dept.  
any attempt at economy,  
so far as I have been able to see  
their endeavours is to get  
for their institutions the same  
facilities & conveniences that  
only necessities, that only two  
or three similar institutions in  
England, the richest country in  
the world, can only procure  
only after years of collecting  
funds.  
That laboratories are wanted  
is not denied, but they might  
in my opinion be constructed  
on a much cheaper design.  
However I have no technical  
knowledge to counter the demand  
of the doctors & as I am weary  
of the strife, in which they  
are sure to win, I can only  
record my reluctant assent  
to the plans & estimates as  
submitted, to be carried out  
as funds are available.

not 23684

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So long as they have the public  
purse to dip into we cannot  
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G.F. 1/3/07



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I agree, that this estimate may be sanctioned by the Council as when funds are available. Granted that new buildings are necessary, I am not sure that it is not a better thing to make them complete & up to date? Even at a comparatively heavy cost. I don't know when money will be available - it must be remembered that the new buildings for the Engineering Coll at Sandapet will have to be provided shortly - & I am aware of the cost of that alone will run us into some lakhs of rupees. The rapid advance now made in the Sciences of health & medicine will involve constant new demands for buildings & fittings.

The draft placed below is submitted for approval.



Sept. 2. 1907

*[Faint, mostly illegible handwritten notes on the left page]*



13 19

CURRENT NO.  
1730  
FINANCIAL

Recd. 2.4.07  
Final Sept

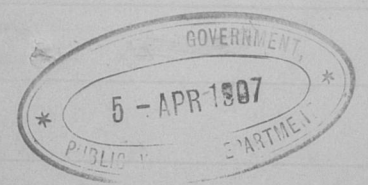
C.S.

P.W.D has a large grant this year and as these laboratories are to be constructed <sup>that Sept</sup> they will probably be ~~about~~ glad to ~~spend~~ meet the expenses of 1.70 lakhs this year.

It seems desirable ~~and~~ that enquiry should be made about the new buildings for the Engineering College at Saidapet to which the Honble Mr. Hammick refers in his note of the 22<sup>nd</sup> March. This is another scheme, which, if it is to be carried out, the P.W.D. will probably welcome <sup>as</sup> an outlet for <sup>this year</sup> expenditures that Dept will doubtless make further enquiry, if necessary, of Govt.

Page 12

Ans.  
3/4/07



The draft is accepted & the papers may be sent on to P.W.D.

507  
B  
Encl 1730-1  
4.4.07  
P.W. No R No. 432  
5207  
P.W.D (20)  
4407



P.W.D.

W

The draft order may be accepted  
 2. until the demands for incomplete  
 works of last year have been met, it can  
 not be said whether money can be spared for  
 the present work. Information is not yet  
 available as to the ~~demands~~ requirements for  
 incomplete works. When the estimate for the  
 laboratories has been scrutinized and is  
 ready for sanction, the financial position in  
 this Department will perhaps have become  
 clearer and the question of funds for the  
 work may then be considered.

The above remarks <sup>also</sup> apply to the  
 new buildings for the Engineering college at  
 Saidapet; but there seems to be no probability  
 of funds being required for this scheme during  
 the current year as ~~the details of the scheme have not~~  
~~been settled yet~~ <sup>how far the existing buildings at Saidapet</sup>  
~~can be utilized and what further accommodations will be required~~  
~~for the College of Engineering~~

6.4.07  
 P.K.  
 7.4.07

P.W.D.

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P.W.D.

W

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~~been settled yet~~ <sup>how far the existing buildings at Saidapet</sup>  
~~can be utilized and what further accommodations will be required~~  
~~for the College of Engineering~~

RK  
 6.4.07  
 P.K.  
 7.4.07

7.4.07  
 Draft account  
 L.M. u.s.

28/4/07



28/4/07  
 Hm

Please type Draft. enc. both for approval

Typed & circulated  
 28/4/07



Papers to be read in Proceedings:—

Again G. O., No. , dated 190 .

Again G. O., No. , dated 190 .

Current No. 790 From the D. P. I. , No. 2231, dated 9th May 1906.

" " " " " " " "

" " " " " " " "

ORDER No. 236, dated 24-4-1907.  
P.S.

The proposal of the Director of Public Instruction for the construction of Physiological and Hygiene laboratories for the Medical College, Madras, at an estimated cost of Rs.1,70,130 in accordance with the plans forwarded with his letter read above, are approved. The work will, however, be carried out as and when funds are available.

2. Further orders on the plans and estimates will issue in the Public Works Department.

P.R.  
26-3-07.

K.R.  
26-3-07.

C.A.S.  
27-3-07.

H.D.T.  
28-3-07.

To The D. P. I. - 940 ✓  
" P. W. D., - 240 ✓  
with plans and estimates  
[and with a copy of the notes].



Just copy sent to Press.

Returned for signature.

Despatched in print.

READ AGAIN G.O., No.  
190

, DATED

CURRENT No.

ENCLOSURES TO G. No.

ORDER OF GOVERNMENT.

LETTER TO GOVERNMENT.

STATEMENT WITH DITTO.

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IN ORIGINAL.

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Order complete with Letter.

3 P.  
Rth 1-115

Go to the  
p. 115  
[Signature]

[Handwritten note at bottom left]