Public Works (1898) Department.

G.O., No. 1971 W

DATED 5 August 98

✓

6/8/98

[Despatch Abstract.]

Victoria Students' Hostel: Estimate amounting to Rs 1,80,943 for constructing the ~~[illegible]~~ at Chepak, Madras, sanctioned with remarks ~~[illegible]~~

100/4 +0

J. (after despatch)

Indexed. Nd 19/8

[P. W. 30. 1,800—12-2-98.]

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department	Date.	G.O	No.	Department.	Date.

BUILDINGS AND ROADS.
CIVIL WORKS.

Government {1898} of Madras.
PUBLIC WORKS.

Recd. } 1898. *Enclosures*
Regd. } *Spare copies*

G.O., No. 1971 W., 5th August 1898.

AUGUST.

Victoria Students' Hostel

Estimate amounting to Rs. 1,80,943 for constructing the — at Chepâk, Madras, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

G.O., No. 400, Educational, dated 15th July 1897.

Read—again the following paper :—

G.O., Mis. No. 521, Educational, dated 25th August 1896.

Read—the following letter from the Honorary Secretaries, Students' Hostels Committee, Madras, to the Chief Secretary to Government, dated 21st June 1896 :—

In approaching Government on the subject of the Victoria Students' Hostel, we cannot but express our regret that it has not been found possible to make more progress with the scheme in the two years that have elapsed since the order of Government specifying the site allotted for the building. It was hoped, when in March 1895 His Excellency Lord Wenlock was invited to lay the foundation stone of the hostel, that we should be able to begin building at an early date. During the vacation, however, Mr. Stone, who had just been appointed Joint Honorary Secretary, devoted considerable attention to the plans that had been drawn up from the points of view of the suitability of the proposed building to the purpose in view, and of the economical spending of the money entrusted to the committee, and as the result of his investigations presented to the committee a memorandum embodying the following main suggestions :—

(1) that the hostel should be built for not less than 200 students, because, taking a reasonable estimate of the rates of board and lodging that students might be expected to pay, a hostel for fewer students could only be worked with considerable probability of the funds available for upkeep (servants, porter, office, taxes and repairs) proving insufficient ;

(2) that the plans should be remodelled with a view both to efficiency and economy.

2. The committee in the main adopted Mr. Stone's memorandum as a basis for its further action, and Mr. Irwin, at its request, undertook to prepare new plans. He retired from the service of Government without having done so, and Colonel Rawson took the work in hand, and prepared three pencil sketches in accordance with Mr. Stone's suggestions and with the assistance of plans of the students' residential portion of the Fergusson College, Poona, which was built very cheaply and has proved very well adapted to its purpose. These plans were sent to His Excellency Lord Wenlock at his Lordship's request, and after some correspondence with the Chief Engineer, were referred to the Hon'ble Mr. Grose who at Mr. Stone's request placed them at the disposal of the committee.* At a meeting of the committee held on the 13th April 1896, they were exhaustively discussed, and various minor alterations with a view to economy were suggested. Of these the committee accepted the following : (1) to place the clerk's office in the ground floor of the warden's house adjoining his study ; (2) to build only two bed-rooms on the first floor of the warden's house, leaving a terraced roof over the study and office ; (3) to omit the passage to the warden's kitchen ; (4) to reduce the width of the verandahs in the residential part of the hostel to 5 feet 6 inches ; (5) to lower the rooms in the same part on the first and second floors by 2 feet and 1 foot, respectively. The sketch plans marked No. 1 and No. 3 and estimate marked No. 3 revised, with an exception to be noted below, will therefore explain the views of the committee as to the building that it is desirable to construct. Plan No. 1 is useful only for the elevation, which is subject to modification (5). Plan No. 3 is subject to modifications (1)—(4). The kitchens, dining rooms, &c., will be in accordance with Mr. Irwin's plan but on a larger scale.

3. It will be seen that the estimates, excluding Rs. 40,133 under the head of Public Works establishment charges, which we venture to hope Government will not charge to the committee, amount to Rs. 1,63,809 for a building to accommodate 204 students with a library, kitchens and dining rooms and latrines, and a house, kitchen and stables for the warden, and a house for a porter or similar official. The maximum funds at the disposal of the committee amount to Rs. 88,942, made up of Rs. 63,942 promised by the Maharaja of Vizianagram and the general public, and Rs. 25,000, the contribution of Government. Rs. 74,867 are therefore wanting to complete the building on the proposed plan.

4. To meet this difficulty the committee proposes to limit its immediate aims to building about half the residential portions of the hostel and the whole of the kitchens† and the warden's residence, leaving the remainder of the residential part, the library, a house for the porter and the warden's stabling till more funds are available. It would probably be possible to arrange for the duties of "porter" being discharged by one of the subordinates attached to the College of Engineering, who live in the married quarters close to the hostel site, and arrangements might be made for the warden utilizing the Presidency College stables pending the completion of the design.

5. To execute even this portion of the work, however, the funds at present at the disposal of the committee will not suffice, as the following statement shows :—

	RS.
Residential part of hostel (one-half)	47,343
Warden's residence (including clerk's office and kitchen)	22,994
Dining rooms, &c.	19,557
Gates and roads	2,000
Water-supply	800
Contingencies at 5 per cent.	4,635
Total ...	97,329
Funds available	82,942 ‡
	14,387

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* See papers returned marked "urgent."

† The committee think this desirable, because the same *number* of separate kitchens and dining rooms will be necessary for the smaller, as for the larger number of students.

‡ Being less by Rs. 6,000 than the total of contributions promised, because that sum was promised by Mr. G. Subroyulu Chetty for the express purpose of providing a library.

6. Consideration of Colonel Rawson's revised plan has led the committee to think that its suggestion to leave the first floor of the warden's residence incomplete was a mistaken one, and it therefore proposes to allot to the warden's residence and kitchen Rs. 25,175, the sum specified in the unrevised estimate No. 3, raising the total cost of the work proposed to be undertaken at once by Rs. 2,290 (building Rs. 2,181, contingencies Rs. 109) and therefore leaving a deficiency of Rs. 16,672.

7. Before proceeding further we cannot but invite a comparison of this estimate of Rs. 99,619 with that originally arrived at by Mr. Irwin of Rs. 1,32,380. The number of students to be accommodated is nearly the same in the two cases. Mr. Irwin's estimate provides for a library at about Rs. 10,000, but allows nothing for contingencies which at 5 per cent. would add about Rs. 5,000 to his total, while the present estimate provides for kitchens, dining rooms, &c., for 204 students at an additional cost for the extra 108 students of Rs. 6,514. The present estimate consequently shows a saving of about Rs. 33,000.

8. In round numbers Rs. 17,000 more than is at present available will be needed to carry out the limited proposals detailed above. The committee hopes that the commencement of building operations will be itself a stimulus to increased subscriptions, as there are many generous men throughout the Presidency who have held back from this movement owing to the fact that hitherto no visible and tangible evidence is forthcoming to show that the hostels are to be a reality. The committee is therefore convinced that it may issue renewed appeals for public support with confidence of success, as soon as, but not before, building operations have made substantial progress.

9. It will be observed that the above calculations are based on the assumption that Government will be pleased to waive the Public Works establishment charges at 24½ per cent., which on the amount proposed to be immediately expended would be more than Rs. 24,000—an additional expense which would leave the committee in a deficit of Rs. 41,000, since while there is reasonable hope that Rs. 17,000 might be obtained by subscriptions while the buildings are in course of erection, the committee would hardly be justified in beginning to build in the hope of realizing Rs. 41,000 before the completion of the work.

10. If these anticipations of the committee of the generosity of Government and the public are realized, and the proposed portions of the plans herewith submitted are carried out, there would still remain the question of the completion of the buildings involving the following expenditure :—

	RS.
Residential portion of hostel (one-half)	47,343
Library	11,845
Warden's stabling	1,127
Gate Superintendent's lodge	3,000
Contingencies at 5 per cent.	3,165
	66,480
Contributions promised for library	6,000
	60,480

This again is exclusive of Public Works establishment charges, which it is hoped that Government will be pleased to waive here also.

11. The committee, convinced as it is of the utility of building the portion of the hostel detailed above, would deplore the long postponement of the completion of the design. Useful as the hostels will be in providing cheap and good board and lodging for students, the committee hopes very much more from them than this. They may be expected to take a leading part in that development of our educational

system on European Public School and College lines which has already been initiated by the establishment of hostels in connection with certain missionary institutions. The building for which the committee is now submitting plans has been designed with careful reference to the social and disciplinary aspects of college life, and as long as it is incomplete, the committee's aims can only be incompletely realized. It has consequently anxiously considered the question of how to raise this large sum of Rs. 60,000.

12. Mr. Stone, in his memorandum already referred to, has suggested that borrowing should be resorted to. The obvious difficulty in the way of this course, is the provision of security, since the committee's sole property will consist in buildings erected on land vested by Government in trustees for a particular purpose. Even if this difficulty could be overcome, however, there are strong reasons against resorting to this expedient. If the hostel realized surplus revenues, these could be much better employed in enlarging and improving it (by, for instance, providing for additional supervision), than in paying interest and contributing to a sinking fund. It is also probable that the public would more willingly contribute funds for the completion of the building than for the repayment of a loan. It has been suggested that the university should be asked to contribute to the hostels either by way of loan or gift. The objections to borrowing would be as strong in the case of the university as in that of any other creditor, as it is clear that in the present state of university finances that body would not be justified in risking any of its capital. The Act of Incorporation so explicity limits the function of the university to the encouragement of learning by the grant of degrees on examination, that it is extremely doubtful whether the university could legally make any gift to the hostels, and it is practically certain that, in the present state of its finances, and bearing in mind that the hostels are, by the memorandum of association,* primarily for mofussil students, it would in any case be unwilling to make any grant.

13. In these circumstances the committee is of opinion that it must rely on the generosity of the public and of Government for the gradual completion of the buildings, and begs to suggest that, in order to encourage subscribers to come forward, Government should offer to supplement the future subscriptions of the public by an equal amount. In support of this suggestion it will be remembered that Government has given half grants for educational buildings in several special cases, and that the hostels are educational institutions in every way deserving of similar assistance. The committee has in view other means of stimulating subscriptions, among which may be mentioned naming rooms, or blocks of rooms, after donors of large sums, and assigning prior right to hostel rooms to students from Native States and districts of the Presidency, in numbers proportionate to the contribution from each.

14. Although we have, with a view to clearness, treated the immediate carrying out of a portion of the building, and its final completion, as two separate objects in view, we have no intention of ear-marking any portion of our funds for one or the other purpose, and we think it very desirable that should Government adopt our suggestion of a half grant-in-aid of subscriptions, that it should come into force at once. In this case there is reasonable probability of our being able to complete an even larger portion of the building, without a suspension of work, than we have above laid down as the essential minimum.

15. It is doubtless unnecessary to reiterate the importance of commencing work with as little delay as may be, and the committee has therefore the honour to request that Government will be pleased, as a step towards giving effect to its order of 26th June 1894, No. 471, Educational, to pass speedy orders on the revised memorandum and articles of association of the Madras students' hostels already submitted,† and to empower the Consulting Architect to Government to prepare full plans and estimates based on the pencil sketches Nos. 1 and 3 and the estimate No. 3 revised.

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* *Vide* memorandum of association as revised in accordance with the orders of Government, section 3 (*a*).

† *Vide* our letter of 21st April 1896.

Order—Mis. No. 521, Educational, dated 25th August 1896.

The Government desires that, before proceeding further, complete and detailed plans and estimates of the cost of the hostel, of which a drawing is given in "revised sketch No. 3," should be prepared. The Public Works Department will be accordingly requested to issue the necessary orders. The preparation of these plans and estimates should be carried through as early as possible, and every endeavour should be made to keep the amount of the estimate within the lowest practicable limits.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

To the Public Works Department.
" Honorary Secretaries, Students' Hostels Committee.

Read—also the following paper:—

From the Honorary Secretaries, Madras Students' Hostels Committee, to the Secretary to Government, Educational Department, dated 22nd February 1897.

We have the honour to submit herewith plans and detailed estimates for the Victoria Students' Hostel, drawn up by the Consulting Architect to Government in accordance with G.O., No. 521, Educational, dated 25th August 1896, and rough estimates made by Mr. Irwin and Colonel Rawson.

A comparison of the amount of these estimates with that of the rough estimate made by Colonel Rawson and taken as the basis of the proposals of the committee in our letter, dated 21st June 1896, seems at first sight to indicate that those proposals require modification, as Mr. Harris's estimates amount to Rs. 2,25,274, or excluding establishment charges at 24 per cent., to Rs. 1,80,942 as against Colonel Rawson's rough estimate of Rs. 1,73,561 excluding the same charges. Mr. Harris, however, informs us that, under the heads of contingencies and petty supervision, which, according to the practice of the Public Works Department, are charged at 5 per cent. and 2½ per cent., respectively, he anticipates a saving of, probably, as much as Rs. 10,000 due to the extreme detail in which the estimates have been prepared, and the nearness of the site to his office which will make it possible for him and his staff to make very frequent visits to the works while in progress. If Mr. Harris's anticipation is anything near realized and Government accedes to the committee's request to waive its claim to establishment charges, the actual sum required for the completion of the building will be in round numbers Rs. 1,71,000, or Rs. 2,500 less than Colonel Rawson's rough estimate.

In these circumstances the committee ventures to request that Government will be pleased to pass very early orders on our letter of 21st June 1896 and on the draft conveyance submitted with our letter, dated 26th October 1896.

Order—No. 400, Educational, dated 15th July 1897.

With the letter read above the Honorary Secretaries of the Madras Students' Hostels Committee submit the plans and detailed estimates for the Victoria Students' Hostel, which were called for in G.O., No. 521, Educational, dated 25th August 1896.

2. The plans are suitable and meet with the approval of Government. The estimates amount to Rs. 2,25,274; but only a sum of Rs. 82,942, inclusive of the donation of Rs. 25,000 promised by the late Maharaja of Vizianagram, is at present at the disposal of the committee and a sum of Rs. 1,42,332 more is required for the construction of the whole of the buildings. The committee therefore proposes to build at first about a half of the residential part of the hostel, with kitchens and warden's quarters, and to leave the remainder of the work to be completed when funds are available. To complete even this portion of the work, which it is proposed to take in hand first, a sum of nearly Rs. 48,000 is required and the committee asks that the Government will forego the Public Works Department charges for establishment and plant amounting nearly to Rs. 26,000 and will supplement by an equal amount the public subscriptions that may be received to make up the further deficiency of about Rs. 22,000. The Government is pleased to accede to these requests, but cannot hold out any promise to make the same concessions towards the completion of the remainder of the work.

3. The plans and estimates will be transferred to the Public Works Department; but the construction of the building should not be proceeded with pending further orders.

4. In conclusion the Government desires to express its appreciation of the thoroughness with which the committee has worked out the project and to thank Mr. Stone especially for the attention which he has devoted to it.

(True Extract.)

(Signed) F. J. WILSON,
for Secretary to Government.

Memo. No. 1387, Educational.

With reference to G.O., No. 267, Educational, dated 22nd April 1898, the Public Works Department is requested to issue early orders for the speedy construction of the hostel and to arrange for the submission to His Excellency the Governor of a progress report at the end of July next.

Ootacamund,
22nd June 1898.

(Signed) A. S. RUSSELL,
for Secy. to Government.

Note by the Chief Engineer, Public Works Department.

The undersigned does not approve of the Consulting Architect's proposal to reduce the cost by Rs. 10,000 by the substitutions referred to in paragraph 2 of his letter No. 4957, dated 26th January 1897, except the substitution of whitewashing for internal plastering. Brick on edge floor and chunam floors do not last.

2. The out-houses might, however, be built of brick-in-mud, with chunam only at openings and on top foot of walls. The mortar should have one-quarter surki at least mixed with it, and stone or tile floors should be substituted for chunam floors wherever the latter are provided.

3. In paragraph 2 of G.O., No. 400, Educational, dated 15th July 1897, the Government acceded to the requests of the Hostels Committee to forego the Public Works Department charges for establishment and tools and plant on the cost of the kitchen and warden's quarters and of half of the residential part of the hostel which it is proposed to build at first and to supplement by an equal amount the public subscriptions that may be received, but declined to hold out any promise to make the same concessions towards the completion of the remainder of the work. As the proposed building is in the interests of the public and as the committee has not sufficient funds at its disposal, it is recommended that the Public Works establishment and tools and plant charges on the entire estimate of Rs. 1,80,943 be waived.

4. With the above remarks the estimate is recommended for sanction.

20th July 1898.

(Signed) W. B. deWINTON,
Chief Engineer.

ORDER—No. 1971 W., dated 5th August 1898.

The estimate, amounting to Rs. 1,80,943, for constructing Victoria Students' Hostel at Chepâk, Madras, is sanctioned for execution in accordance with the provisions of paragraph 82, chapter IX, Volume I, of the Public Works Code.

2. As the committee has not sufficient funds at its disposal to carry out the whole project, it proposes that one-half of the residential portion of the hostel with kitchens and warden's quarters be constructed at first, leaving the remainder of the work to be completed when funds become available. This proposal is approved.

3. In paragraph 3 of the Government Order read above, the construction of the building was ordered to be deferred pending further instructions. This restriction having since been withdrawn (*vide* G.O., No. 267, Educational, dated 22nd April 1898), the Consulting Architect is authorized to arrange for the speedy construction of so much of the hostel as is sanctioned in paragraph 2 of these Proceedings. A report of the progress made on the building should be submitted for the information of Government at the end of September next.

4. The attention of the Consulting Architect is drawn to the Chief Engineer's note read above.

5. The recommendation of the Chief Engineer that the Public Works establishment and tools and plant charges on the entire estimate of Rs. 1,80,943 be waived is approved.

(True Extract.)

Under Secretary to Government.

To the Consulting Architect to Government,
with ten enclosures.
" Examiner, Public Works Accounts.
" Honorary Secretaries to the Madras Students' Hostel Committee.
" Educational Department.

Exd. T. K. Narayana Aiyangar,

Public Works DEPARTMENT.

(1) H. E. the Governor
(2) The Hon'ble Sir Henry Bliss K.C.I.E.
(3) The Hon'ble Mr Arundel

9

Papers to be read in Proceedings:—

Again G.O., dated 189 , No.
Again G.O., dated 189 , No.
Current No. 7587 of 1897, dated 30th July 1897, from the Educational Deptt.
" " 5362 " 1898, " 27th June 1898, " — do —
Note by the Chief Engineer, P.W. Department, dd 20th July 1898.

ORDER. No 1971 W Dd 5.8.98

The estimate amounting to Rs 1,80,943 for constructing Victoria Students' Hostel at Chepak, Madras is sanctioned for execution in accordance with the provisions of para 82 Chapter IX, Volume I of the P.W. Code.

2. As the Committee has not sufficient funds at its disposal to carry out the whole project, it proposes that one half of the residential portion of the hostel with kitchens and warden's quarters be constructed at first, leaving the remainder of the work to be completed when funds become available. This proposal is approved.

3. In para 3 of the G.O. read above

Educational Deptt for favour of counter initials.

Appd.
A.H.
27.7.98

28/7/98

Para 2 says that half the residential portion &c. is to be built now & the rest when funds are available. Para. 3 authorizes the speedy construction of the hostel without ref. to the limitation in para 2. It wd be well to make the point clear.

30.7.98

above, the construction of the building was ordered to be deferred pending further instructions. This restriction having since been withdrawn vide G.O. No. 267 Educational, dated 22nd April 1898, the Consulting Architect is authorised to arrange for the speedy construction of so much of the hostel as is sanctioned in paragraph 2 of these Proceedings. A report of the progress made on the building should be submitted for the information of Government at the end of September ~~August~~ next.

2-8-98

2-8-98 W

I have altered the date of report it being impossible that any progress of value can be shown by end of Aug.

2-8

W/ 1 Aug 98

T/B

4. The attention of the Consulting Architect is drawn to the Chief Engineer's note read above.

5. The recommendation of the Chief Engineer that the P. W. Establishment and Tools and Plant charges on the entire estimate of Rs 1,80,943 be waived is approved.

20.7.98

To
The Consg: Architect to Govt. with enclosures.
" Examiner, P. W. accounts.
" Honorary Secretaries to the M. S. H. Committee.
" Educational Department.

A.T. 23.7.98 W

Note

This estimate has been dealt with in the accompanying technical note and the note by the Chief Engineer.

20.7.98 W

Estimate & 9 plans given to Manager of A's office

P. W. D.

Note by the Chief Engineer.

The undersigned does no approve of the Consg: Architec proposal to reduce the cost b Rs 10,0 c by the substitutions refe to in para 2 of his letter No. 49 dated 26th January 1897, except substitution of white washing for internal plastering. Brick on edge floor and chunam flo do not last.

2. The outhouses might, howev be built of brick-in-mud, with chunam only at openings and on top foot of walls. The mortar shou have ¼ surki at least mixed with it, and stone or tile floors should be substituted for chunam floors wherever the latter are provided.

3. In para 2 of G.O. No. 400, Educational, dated 15th July 1897, the Government acceded to the requests of the Hostels Committee to forego the P. W. Department charges for Establishment and

Tools

12

ools and Plant on the cost of the itchen and warden's quarters nd the half of the residential part of the hostel which it is proposed to build at first and to supplement by an equal amount the public subscriptions hat may be received, but declined to hold out any promise make the same concessions owards the completion of the remainder of the work. As the proposed building is in the interests of the public and as the Committee has not sufficient funds at its disposal it is recommended that the P.W. Establishment and Tools and Plant charges on the entire estimate of Rs.180943 be waived.

4. With the above remarks the estimate is recommended for sanction.

L B
E.W. 20.7.98

13

Public Works (1898) Department.

CURRENT No. 5362

not to print

No: 3006C d/ 5-7-98

From The Educational dept

~~**Order**~~ memo.

memo **No.** 1387

Dated 22-6-98

Received 27.6.98

Registered 27.6.98

Enclosures

Spare copies

T to B Pl

SUBJECT.

Requesting the P.W.D. to issue early orders for the speedy construction of the Victoria Hostel & to arrange for the submission of a progress report to H.E. the Govr. at the end of July 98.

With reference to Memo No. 1387, dated 22nd inst., in the Ed. Dept. the undersigned has the honor to say that the estimate for the Victoria Students Hostel, Madras, is under check in this Office, & will be submitted to Govt. for sanction with the least possible delay.

2. A Progress Report at the end of next month can hardly exhibit any information.

AEK
28.6.98

30.6.98

To the Edn Dept. 6/7/98

INDEXED.

7/7/98

O.L.S. 20 (R 4/7

BACK PAPERS.	
No.	Date.
1142W	10-5-98

FURTHER PAPERS.	
No.	Date.

14

Educational DEPARTMENT.

[G. / 9]
5—14-5-98.

CHIEF SECRETARIAT
MADRAS.

Memorandum No. 1387.

~~READ the following paper:—~~

With reference to G.O.No.267, Educational, dated 22nd April 1898, the Public Works Department is requested to issue early orders for the speedy construction of the hostel and to arrange for the submission to His Excellency the Governor of a progress report at the end of July next.

Ootacamund,
~~Dated~~ 22nd June 1898.

A. L. Russell
for Secretary to Govt.

24-6-98.

To

The Public Works Department.

24-6-98

A/4 300-20-3-96.

15

Office of the Consulting Architect to Govt.,
Chepauk, Madras,
26th January 1897

No. 495

CHIEF SECRETARY
22 FEB. 1897
GOVERNMENT OF MADRAS

From

G. S. T. Harris Esqre
Consulting Architect
to the Government of Madra

To

The Director of Public Instruction
Madras.

Sir,

I have the honour to forward pla and Estimates for the Victoria Students Hostels to be built at the Chepauk Park. Particulars of the work to be done are detailed in the Report accompanying Estimate

2. By substituting brick on edge for the basement floor of the hostels and two kitchen blocks, and chunam floors, the 1st and 2d floors instead of 6" Square pressed tiles and whitewashing inside over the brick walls instead of plaste for the buildings a saving of 10,000 Rs can be effected.

Enclosures.

1 Report & abs: Este:
1 Detail Este:
3 Pencil Drawings
& 7 Tracings
one of which is attached to report with sections of trial pits for foundations

I

I have the honour to be
Sir
Your most Obedient Servant
Geo Deuvois —
Consulting Architect to Govt

Forwarded to the
Secretaries of the Victoria Students
Hostel
D Duncan

Ow. E. 1
7587/97

Public works (1897) Department

Current Number: 7587

No. 3066 cd/5-7-98
1142 wd/10-5-98
1772 cd/22-3-98
357 wd/5-2-97
564 cd/28-1-97
209 cd/14-1-97
3118 wd/30-10-96
2565 wd/4-9-96

Government {1897} of Madras.

EDUCATIONAL.

Recd. 30 · 7 · } 1897.
Regd. 30 · 7 · } 1897.

Enclosures 24 (2 plans)

Spare copies 10.

G.O., No. 400, 15th July 1897.

JULY.

Victoria Students' Hostel.

Passing orders on the plans and estimates for the — submitted by the Madras Students' Hostels Committee, approving of the proposal to build at first about a half of the residential part of the hostel, with kitchens and warden's quarters, and promising to forego the Public Works Department charges for establishment, &c., amounting nearly to Rs. 26,000 and to supplement by an equal amount the public subscriptions that may be received to make up the further deficiency, but directing that the construction of the building should not be proceeded with pending further orders.

Forwarded to Secretary
CM
11/8/97

0L5234 24/8

1

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

x 25652
2-9-96

Read—again the following paper:—

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(1) that the hostel should be built, for not less than 200 students, because, taking a reasonable estimate of the rates of board and lodging that students might be expected to pay, a hostel for fewer students could only be worked with considerable probability of the funds available for upkeep (servants, porter, office, taxes and repairs) proving insufficient;

(2) that the plans should be remodelled with a view both to efficiency and economy.

2. The committee in the main adopted Mr. Stone's memorandum as a basis for its further action and Mr. Irwin, at its request, undertook to prepare new plans. He retired from the service of Government without having done so, and Colonel Rawson took the work in hand, and prepared three pencil sketches in accordance with Mr. Stone's suggestions and with the assistance of plans of the students' residential portion of the Fergusson College, Poona, which was built very cheaply and has proved very well adapted to its purpose. These plans were sent to His Excellency Lord Wenlock at his Lordship's request, and after some correspondence with the Chief Engineer, were referred to the Hon'ble Mr. Grose who at Mr. Stone's request placed them at the disposal of the committee.* At a meeting of the committee held on the 13th April 1896, they were exhaustively discussed and various minor alterations with a view to economy were suggested. Of these the committee accepted the following: (1) to place the clerk's office in the ground floor of the warden's house adjoining his study; (2) to build only two bed-rooms on the first floor of the warden's house, leaving a terraced roof over the study and office; (3) to omit the passage to the warden's kitchen; (4) to reduce the width of the verandahs in the residential part of the hostel to 5 feet 6 inches; (5) to lower the rooms in the same part on the first and second floors by 2 feet and 1 foot, respectively. The sketch plans marked No. 1 and No. 3 and the estimate marked No. 3 revised, with an exception to be noted below, will therefore explain the views of the committee as to the building that it is desirable to construct. Plan No. 1 is useful only for the elevation, which is subject to modification (5). Plan No. 3 is subject to modifications (1)—(4). The kitchens, dining rooms, &c., will be in accordance with Mr. Irwin's plan but on a larger scale.

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* See papers returned marked "urgent."

2

3. It will be seen that the estimates, excluding Rs. 40,133 under the head of Public Works establishment charges, which we venture to hope Government will not charge to the committee, amount to Rs. 1,63,809 for a building to accommodate 204 students with a library, kitchens and dining rooms and latrines, and a house, kitchen and stables for the warden, and a house for a porter or similar official. The maximum funds at the disposal of the committee amount to Rs. 88,942, made up of Rs. 63,942 promised by the Maharaja of Vizianagram and the general public, and Rs. 25,000, the contribution of Government. Rs. 74,867 are therefore wanting to complete the building on the proposed plan.

4. To meet this difficulty the committee proposes to limit its immediate aims to building about half the residential portions of the hostel and the whole of the kitchens* and the warden's residence, leaving the remainder of the residential part, the library, a house for the porter and the warden's stabling till more funds are available. It would probably be possible to arrange for the duties of "porter" being discharged by one of the subordinates attached to the College of Engineering, who live in the married quarters close to the hostel site, and arrangements might be made for the warden utilizing the Presidency College stables pending the completion of the design.

* The committee think this desirable, because the same *number* of separate kitchens and dining rooms will be necessary for the smaller, as for the larger number of students.

5. To excute even this portion of the work, however, the funds at present at the disposal of the committee will not suffice, as the following statement shows:—

	RS.
Residential part of hostel (one-half)	47,343
Warden's residence (including clerk's office and kitchen)	22,994
Dining rooms, &c.	19,557
Gates and roads	2,000
Water-supply	800
Contingencies at 5 per cent.	4,635
Total ..	97,329
Funds available	82,942*
	14,387

6. Consideration of Colonel Rawson's revised plan has led the committee to think that its suggestion to leave the first floor of the warden's residence incomplete was a mistaken one, and it therefore proposes to allot to the warden's residence and kitchen Rs. 25,175, the sum specified in the unrevised estimate No. 3, raising the total cost of the work proposed to be undertaken at once by Rs. 2,290 (building Rs. 2,181, contingencies Rs. 109) and therefore leaving a deficiency of Rs. 16,672.

7. Before proceeding further we cannot but invite a comparison of this estimate of Rs. 99,619 with that originally arrived at by Mr. Irwin of Rs. 1,32,380. The number of students to be accommodated is nearly the same in the two cases. Mr. Irwin's estimate provides for a library at about Rs. 10,000, but allows nothing for contingencies which at 5 per cent. would add about Rs. 5,000 to his total, while the present estimate provides for kitchens, dining rooms, &c., for 204 students at an additional cost for the extra 108 students of Rs. 6,514. The present estimate consequently shows a saving of about Rs. 33,000.

8. In round numbers Rs. 17,000 more than is at present available will be needed to carry out the limited proposals detailed above. The committee hopes that the commencement of building operations will be itself a stimulus to increased subscriptions, as there are many generous men throughout the Presidency who have held back from this movement owing to the fact that hitherto no visible and tangible evidence is forthcoming to show that the hostels are to be a reality. The committee is therefore convinced that it may issue renewed appeals for public support with confidence of success, as soon as, but not before, building operations have made substantial progress.

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* Being less by Rs. 6,000 than the total of contributions promised, because that sum was promised by Mr. G. Subroyulu Chetty for the express purpose of providing a library.

9. It will be observed that the above calculations are based on the assumption that Government will be pleased to waive the Public Works establishment charges at 24½ per cent., which on the amount proposed to be immediately expended would be more than Rs. 24,000, an additional expense which would leave the committee in a deficit of Rs. 41,000, since while there is reasonable hope that Rs. 17,000 might be obtained by subscriptions while the buildings are in course of erection, the committee would hardly be justified in beginning to build in the hope of realizing Rs. 41,000 before the completion of the work.

10. If these anticipations of the committee of the generosity of Government and the public are realized, and the proposed portions of the plans herewith submitted are carried out, there would still remain the question of the completion of the buildings, involving the following expenditure :—

	RS.
Residential portion of hostel (one-half)	47,343
Library	11,845
Warden's stabling	1,127
Gate Superintendent's lodge	3,000
Contingencies at 5 per cent.	3,165
	66,480
Contributions promised for library	6,000
	60,480

This again is exclusive of Public Works establishment charges which, it is hoped, that Government will be pleased to waive here also.

11. The committee, convinced as it is, of the utility of building the portion of the hostel detailed above, would deplore the long postponement of the completion of the design. Useful as the hostels will be in providing cheap and good board and lodging for students, the committee hopes very much more from them than this. They may be expected to take a leading part in that development of our educational system on European Public School and College lines which has already been initiated by the establishment of hostels in connection with certain missionary institutions. The building for which the committee is now submitting plans has been designed with careful reference to the social and disciplinary aspects of college life, and as long as it is incomplete, the committee's aims can only be incompletely realised. It has consequently anxiously considered the question of how to raise this large sum of Rs. 60,000.

12. Mr. Stone, in his memorandum already referred to, has suggested that borrowing should be resorted to. The obvious difficulty in the way of this course, is the provision of security, since the committee's sole property will consist in buildings erected on land vested by Government in trustees for a particular purpose. Even if this difficulty could be overcome, however, there are strong reasons against resorting to this expedient. If the hostel realised surplus revenues, these could be much better employed in enlarging and improving it (by, for instance, providing for additional supervision), than in paying interest and contributing to a sinking fund. It is also probable that the public would more willingly contribute funds for the completion of the building than for the repayment of a loan. It has been suggested that the university should be asked to contribute to the hostels either by way of loan or gift. The objections to borrowing would be as strong in the case of the university as in that of any other creditor, as it is clear that in the present state of university finances that body would not be justified in risking any of its capital. The Act of Incorporation so explicitly limits the function of the university to the encouragement of learning by the grant of degrees on examination, that it is extremely doubtful whether the university could legally make any gift to the hostels, and it is practically certain that, in the present state of its finances, and bearing in mind that the hostels are, by the Memorandum of Association,* primarily for mofussil students, it would in any case be unwilling to make any grant,

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* *Vide* Memorandum of Association as revised in accordance with the orders of Government, Section 3 (*a*).

13. In these circumstances the committee is of opinion that it must rely on the generosity of the public and of Government for the gradual completion of the buildings, and begs to suggest that, in order to encourage subscribers to come forward, Government should offer to supplement the future subscriptions of the public by an equal amount. In support of this suggestion it will be remembered that Government has given half grants for educational buildings in several special cases, and that the hostels are educational institutions in every way deserving of similar assistance. The committee has in view other means of stimulating subscriptions, among which may be mentioned naming rooms, or blocks of rooms, after donors of large sums, and assigning prior right to hostel rooms to students from Native States, and districts of the Presidency, in numbers proportionate to the contribution from each.

14. Although we have, with a view to clearness, treated the immediate carrying out of a portion of the building, and its final completion, as two separate objects in view, we have no intention of ear-marking any portion of our funds for one or the other purpose, and we think it very desirable that should Government adopt our suggestion of a half grant-in-aid of subscriptions, that it should come into force at once. In this case there is reasonable probability of our being able to complete an even larger portion of the building, without a suspension of work, than we have above laid down as the essential minimum.

15. It is doubtless unnecessary to reiterate the importance of commencing work with as little delay as may be, and the committee has therefore the honour to request that Government will be pleased, as a step towards giving effect to its order of 26th June 1894, No. 471, Educational, to pass speedy orders on the revised memorandum and articles of association of the Madras Students' Hostels already submitted,* and to empower the Consulting Architect to Government to prepare full plans and estimates based on the pencil sketches Nos. 1 and 3 and the estimate No. 3 revised.

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* *Vide* our letter of 21st April 1896.

Order—Mis. No. 521, Educational, dated 25th August 1896.

The Government desires that, before proceeding further, complete and detailed plans and estimates of the cost of the hostel, of which a drawing is given in "revised sketch No. 3," should be prepared. The Public Works department will be accordingly requested to issue the necessary orders. The preparation of these plans and estimates should be carried through as early as possible, and every endeavour should be made to keep the amount of the estimate within the lowest practicable limits.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

To the Public Works Department.
" Honorary Secretaries, Students' Hostels Committee.

Read—also the following paper :—

From the Honorary Secretaries, Madras Students' Hostels Committee, to the Secretary to Government, Educational Department, dated 22nd February 1897.

We have the honour to submit herewith plans and detailed estimates for the Victoria Students' Hostel, drawn up by the Consulting Architect to Government in accordance with G.O., No. 521, Educational, dated 25th August 1896, and rough estimates made by Mr. Irwin and Colonel Rawson.

A comparison of the amount of these estimates with that of the rough estimate made by Colonel Rawson and taken as the basis of the proposals of the committee in our letter, dated 21st June 1896, seems at first sight to indicate that those proposals require modification, as Mr. Harris's estimates amount to Rs. 2,25,274, or excluding establishment charges at 24 per cent., to Rs. 1,80,942 as against Colonel Rawson's rough estimate of Rs. 1,73,561 excluding the same charges. Mr. Harris, however, informs us that, under the heads of contingencies and petty supervision, which, according to the practice of the Public Works department, are charged at 5 per cent. and 2½ per cent., respectively, he anticipates a saving of, probably, as much as Rs. 10,000 due to the extreme detail in which the estimates have been prepared, and the nearness of the site to his office which will make it possible for him and his staff to make very frequent visits to the works while in progress. If Mr. Harris's anticipation is anything near realized and Government accedes to the committee's request to waive its claim to establishment charges, the actual sum required for the completion of the building will be in round numbers Rs. 1,71,000 or Rs. 2,500 less than Colonel Rawson's rough estimate.

In these circumstances the committee ventures to request that Government will be pleased to pass very early orders on our letter of 21st June 1896 and on the draft conveyance submitted with our letter, dated 26th October 1896.

Order—No. 400, Educational, dated 15th July 1897.

With the letter read above the Honorary Secretaries of the Madras Students' Hostels Committee submit the plans and detailed estimates for the Victoria Students' Hostel, which were called for in G.O., No. 521, Educational, dated 25th August 1896.

2. The plans are suitable and meet with the approval of Government. The estimates amount to Rs. 2,25,274; but only a sum of Rs. 82,942, inclusive of the donation of Rs. 25,000 promised by the late Maharaja of Vizianagram, is at present at the disposal of the committee and a sum of Rs. 1,42,332 more is required for the construction of the whole of the buildings. The committee therefore proposes to build at first about a half of the residential part of the hostel, with kitchens and warden's quarters, and to leave the remainder of the work to be completed when funds are available. To complete even this portion of the work, which it is proposed to take in hand first, a sum of nearly Rs. 48,000 is required and the committee asks that the Government will forego the Public Works department charges for establishment and plant amounting nearly to Rs. 26,000 and will supplement by an equal amount the public subscriptions that may be received to make up the further deficiency of about Rs. 22,000. The Government is pleased to accede to these requests but cannot hold out any promise to make the same concessions towards the completion of the remainder of the work.

3. The plans and estimates will be transferred to the Public Works department; but the construction of the building should not be proceeded with pending further orders.

4. In conclusion the Government desires to express its appreciation of the thoroughness with which the committee has worked out the project and to thank Mr. Stone especially for the attention which he has devoted to it.

(True Extract.)

for Secretary to Government.

To the Honorary Secretaries to the
Madras Students' Hostels Committee.
" Public Works Department.
" Financial Department.
" Director of Public Instruction.

Estimates are herewith sent, also a plans [illegible] will follow

Exd. Shaik Karim.

C. No. 7587 of 1897

P. W. Secretariat.

Note by Budget Section.

Work Victoria Students' Hostel, Madras.

Fund Deposit Contributions
Service Head ... . Civil Buildings
Departmental Head ... ... Original Works
Amount of Estimate ... ... Rs. 1.80.943, or Rs 2.25.274 inclusive of percentage charges for Estabt and Tools and Plant.
Expenditure in previous year ... "
Allotment in current year ... "
Balance required to complete ... "
Total Rs ...

Note of available Funds.

This is a contribution work and as such should be executed in accordance with the provisions contained in para 82 Chapte Vol I. P.W. code.

In para 2 of G.O. No. 400 Educational, dd 15th July 1897, passing orders on the estimates, it is stated that funds to work out the whole project not being available, the Committee proposes to build, at fir about a half of the residential part of the hostel, with kitchens and warden's quarters, and that percentage charges amounting to Rs 26,000 may be waived, &c bu that Govt cannot hold out any promise to give the same concessions for the remainder of the work.

Before drafting a G.O. sanctioning the ~~estimate~~ construc of the building, orders are solicited as to whether the entire percentage charges on the estimate of Rs 1.80.943, viz Rs 44.331 or only Rs 26,000 should be waived.

P.K.S.
15/7/98

Recommend this
19.7.98

Note by Budget Section.

25

Public Works Department.

Current No. 7587
Letter No. 400
Dated 15th July 1898
From the Educational Dept.

NOTE BY TECHNICAL SECTION.

Name of work Constructing Victoria Students Hostel at Chepauk.

Amount of Estimate Rs 2,25.

The plans and estimate under review amounting to Rs 2,25,274 have been framed with reference to G.O. No. 2565 W dated 4th Sept. 18[illegible] and provide for constructing the Victoria Students Hostel & subsidiary buildings at Chepauk, Madras.

The amount of the estimate is made up as under:-

(a)	Main Hostel building	Rs 1,14,585
(b)	Library	11,057
(c)	Wardens quarters complete	25,634
(d)	Kitchen, dining and bath rooms for vegetarians	10,812
(e)	- do. for those who use animal flesh	8,273
(f)	Two latrines	2,364
(g)	Gate Sergeants quarters	3,664
(h)	Gates, roads, drains & water supply	4,554
		Rs 1,80,943
	+ add for P.W. Estab. charges 24½%	44,331

W
Estimate can be sanctioned
ACK
15-7-98.

(See also Budget note subsequent)

Ex. submit for sanction. I say I do not approve of C.E.'s proposal to reduce cost by Rs 10000 by the substitutions referred to in letter 4907 of 26 June 98 except substitution of white washing for internal plastering. Chunam lined [illegible] floors & chunam floors do not last - the substitutes might however be built of brick in mud with chunam [illegible] at openings & in top foot of walls. The mortar that [illegible] [illegible] [illegible] [illegible] & stone least [illegible] [illegible] [illegible] be substituted for tile floors [illegible] for chunam do [illegible]

- (a) The residential part of
stel will accommodate 204
nts and will consist of three
with 17 rooms in each floor &
be so arranged as to form 3
of a quadrangle, the fourth
being enclosed by a wall
et high with an entrance
te.

The rooms will each measure
'×20' feet and half the number
rooms will be partitioned by
wooden screens into two compart-
ments, each measuring 20×10 ft.
to accommodate two students &
the other half into four compart-
ments, measuring 10'×10' each,
to accommodate one student,
so that the entire building will
accommodate (3×17×4) 204 students,
a verandah 5½ ft. will be built in
front of the rooms on three sides.

Provision has been made for
night bath rooms and latrines
in rear of the main Hostel build-
ing, in two wings to each floor &
each wing will consist of 4 rooms
& a staircase room, two of the four
rooms will be used as bath rooms
& the other two as latrines, each of
the rooms will be 10 feet square & the
stair case room 20'×10' with ver-
andah 5½ ft. wide & a sweeper
spiral staircase at end. These

night

29

Its main walls raised 24½ feet above
[illegible] 10½ ft. above verandah

27

night latrines & bath rooms will be used only at nights and kept locked during the day.

At the entrance on the north west & south west angles of the building, a porters room measuring 10'×10' is provided on one side and on the opposite side, a store room 10'×10' for storing boxes &c. of the students while on leave.

The floors will be reached by 4 wooden stair-cases, two in front & two in rear, as shewn on plan.

The surface soil varies from hard clay to smooth sandy clay & the sub soil from smooth sandy clay to coarse loose sand, as shewn on sections of trial pits attached to the estimate.

The foundations will be laid to a depth of 5½ feet, the lower 2 feet will be of concrete & the upper 3½ feet built in footings with stock bricks in chunam. The basement will be raised 2½ feet above ground surface and built with stock bricks in chunam & the top surface laid with 5/8" of asphalte, as a damp proof course.

The walls of the three floors will

35,643
91.
20 Tons

basement & first floor walls will be 1'8" thick and the second floor 1'3" thick & built of stock bricks in mortar & with archwork over voids. The surface of walls will be plastered in the interior face with 2 coats of lime mortar and pointed with lime & sand composition on the exterior face. The floor of the basement floor will be of 2" Cuddapah slabs laid over 4" of concrete & pointed with cement & that of the first and second floors terraced with brick on edge & 3" of concrete laid over teak joists supported on rolled steel beams & the surface laid with pressed tiles 6" square set in cement mortar. The roof will be terraced throughout with brick on edge &c. complete laid on teak joists & rolled steel girders. Doors & windows will be of the descriptions noted in the estimate of teakwood & painted with 3 coats of oak paint.

Item (b). The Library will be built to the north east angle of the main hostel block and will consist of a large hall 50' × 25' interior dimensions with verandah

Its main walls raised 24½ feet above floor and 10½ ft. above verandah roof. The hall will be fitted with a wooden gallery all round 4½ feet wide and lighted by clere story ventilators, as shown on plan. The gallery floor will be 13¼ feet above basement floor and will be reached by a spiral staircase.

The particulars of construction will be as detailed above for the main hostel block.

Item (c) Warden's quarters.- This block will be constructed 20 feet to the north of the Library and will be connected to it by a passage 5½ feet wide and will be two storied. The basement floor will consist of a drawing room to the north 30'×20', a staircase room at side 26'5½"×10 with store room in rear 10'×8', a dining room 25'×20' with [illegible] room 14'9"×10'8½" and store room 10'8½"×9' in rear together with an office room 15'1½"×12 and a bath room 15'1½"×6'9" in rear. A verandah 8 ft. wide will be built in front & sides of the building as shown on plan, also a porch 16'6"×15'6" in front of the building.

The upper or first floor will consist of a large bed room 30'×20' & a dressing room 20'×8 in rear just over the drawing room and side verandah. a staircase room 26'5½"×10' and a bath room in rear 10'×8', another bed room 25'×20' with dressing room 14'9"×10'8½" and bath room 10'8½"×9' in rear in the centre and a third bed room 20'×16' with dressing room 15'1½"×12' & a bath room 15'1½"×6'9" in rear just over the office &c. a verandah 8 ft. wide will pass in front & side of this block.

Provision has been made for a sweepers stair-case with landing in rear, so as to reach the upper bath rooms.

The out houses for the wardens qrs. will consist of a kitchen block & coach house block. The kitchen block will contain three rooms with a verandah 6 feet wide. The centre room will be the kitchen measuring 14'×10' and the two side rooms as godowns each 10'×8'.

The coach house block will consist of a coach house 14'×14' for two carriages and 3 stalls, each 9'×10' with verandah in front of stalls.

The particulars of construction for the main building are similar to that of the main hostel block. The outhouses will also be constructed with brick in mortar but with 2^{d} class stock bricks. They will be roofed with Mangalore tiles laid over teak reapers,

rafters

rafters &c. The floor of the kitchen block will be of 6" concrete & those of the coach house block gravelled to a depth of 3". The walls of the coach house block will be plastered with 2 coats of mortar both interior & exterior and that of the kitchen block plastered interior & pointed exterior.

Item (d) Kitchen dining and bathing rooms for vegetarians.

This block will measure 127'9" × 56'9" exterior dimensions, and will consist of four sets of eating rooms, each measuring 15'×10', two sets of kitchens, each 12'×10', two sets of store rooms each 10'×6'2", a water pandal 10'×8' and two fuel stores each 10'×8', with two passages 5 feet wide and a verandah 9¼ feet wide.

The bath rooms will be located in rear and will comprise two sets of close bath rooms, each set consisting of 4 rooms, measuring 8'×8' and two sets of open bath rooms each 15'6"×8'.

The materials of construction will be the same as that of the out buildings to wardens quarters, except that the floors will be of Cuddapah slabs set on 4 inches of concrete for the rooms & cement

cement plastering on 4" concrete for the bath rooms.

Item (e) Kitchen, dining room & bath rooms for those who eat animal food.

This block will measure 104·6" x 57'0" outer dimensions & will contain two large eating rooms each 21'3" x 10'0" at ends, and another two sets of eating rooms each 15' x 10', one set of Kitchens each 12' x 10', two store rooms each 10' x 10', two fuel rooms each 6'2" x 10' and two passages 5 feet wide together with a front verandah 8 feet ~~with~~ wide.

The bath rooms will be located in rear 13½ feet from the main eating rooms and will comprise two sets of close bath rooms, each set containing 3 rooms measuring 8' x 8' and two open bathing places 15'6" x 8' each.

The materials of construction are the same as for item (d).

Item (f) Consists of two corrugated iron latrines, 35½ feet long x 14'3" each, outer dimensions, with two screen partitions each 6'1½" x 2'9" & with two sinks 4½ ft. square.

Each latrine will be fitted with 24 seats i.e. 12 in each row & will have screen partitions. The walling

The walling will be of corrugated iron fastened to angle iron verticals 1½" x 1½" x 3" & the floor laid with concrete plastered with Portland cement.

Item (g) - Gate Sergeant's Qrs.

This building will be erected near the gateway at Pyecroft's road and will contain a sitting room 17'6" x 14'0", bed room 14' x 14', bath room 8'9" x 8'9" and a store room 8'9" x 8'9" with front and rear verandahs 8'9" wide.

In rear will be built a kitchen 8' x 8' at one end of the compound & a latrine 6' x 6' at the other end with compound wall around.

The materials of construction are the same as that of Warders quarters except that 2d class stock bricks are to be used in this case.

Item (h) provides for erecting a new gateway at Pyecroft's road, a new road of approach to the proposed buildings, altering drains & fitting red hills water to the buildings.

The scantlings for roof timbers are correct also that for rolled steel girders as under.

Main Hostel:

Terrace - 20 x 10 x ¾ x 120 : 18,000
Joists — 14 x 10 x 3" x 7" x 46 : 939
Lin. wood. 20 x 10 x 120 — : 24000
42939

Total lbs 42,939.
or Tons 19.17.

By formula.

W = WL = 19.17 × 20 = 383.40 Tons.

for which a section 16" × 6" will be required weighing 62 lbs per foot run & this section the estimate allows.

Library

Terrace — 25 × 10 × ¾ × 120 = 22,500
joists — 18 × 10 × 3" × 6½" × 46 = 1,121
Live load — 25 × 10 × 120 — = 30,000
Total lbs 53,621
or Tons 23.94.

W = WL = 23.94 × 25 = 598.5 Tons

for which a section 18" × 7" weighing 82 lbs per ft. run is required & the estimate provides for this section.

Wardens Quarters

Drawing & upper bed room

Terrace — 20 × 10 × ¾ × 120 = 18,000
joists — 14 × 10 × 3" × 6½" × 46 = 872
Live load 20 × 10 × 120 — = 24,000
Total lbs 42,872
or Tons 19.14.

W = WL = 19.14 × 20 = 382.80.

for which a section 16" × 6" weighing 62 lbs will suffice & this section the estimate provides.

Dining & centre bed room

Terrace — 20 × 8.4" × ¾ × 120 = 15,000
joists — 14 × 8.4" × 3" × 5¾" × 46 = 643
Live load. 20 × 8.4" × 120 — = 20000
Total lbs 35,643

This can be passed, difference being small.

It is not worth while to make any alterations, the saving being inconsiderable (see next page) in cases where ~~larger~~ smaller sections will do (54 as per book) ~~are required~~, and P.A.'s scantlings evidently not being calculated for a live load of 120 lbs per sq. ft., so that, in the one case where his scantlings seem too little, they are really strong enough to bear any load that is ever likely to come on the roof.

Can be passed. ✓

Total lbs 35,643
or Tons 15.91.

W = WL = 15.91 × 20 = 318.20 Tons.

for which a section 14" × 6" weighing 57 lbs would be required but the estimate provides a larger section of 16" × 6" weighing 62 lbs per foot.

Office & bed rooms.

Terrace — 16 × 10 × ¾" × 120 — = 14,400
joists — 12 × 10 × 3" × 6½" × 46 = 748.
Live load 16 × 10 × 120 — = 19,200
Total lbs 34,348
or Tons. 15.33

W = WL = 15.33 × 16 = 245.28 Tons.

for which a section 14" × 6" weighing weighing 46 lbs per ft. is ample instead of the estimated section of 12" × 6" weighing 42 lbs per foot which is slightly weak.

Gate Sergeant's Quarters

Sitting room

Terrace 14 × 8.9" × ¾" × 120 = 11,025
joists 10 × 8.9" × 3" × 6" × 46 = 503
Live load 14 × 8.9" × 120 = 14,700
Total lbs 26,228
or 11.71 Tons.

W = WL = 11.71 × 14 = 163.94 Tons.

for which a section 12" × 5" weighing 39 lbs will be required against the estimated section of 12" × 5" for weighing 43 lbs per foot run!

88

Bed room

Terrace — 14 × 7 × 3/4" × 120 = 8820
joists — 10 × 7 × 1/4" × 5/12 × 46 = 335
Lime board 14 × 7 × 120 — = 11760
Total lbs 20915

or Tons 9.34.

W = WL = 9.34 × 14 = 130.76.

for which a section 10" × 5" weigh=ing 35 lbs per foot run is re=quired & the estimate provides for this section.

The rates are fair.

The plinth area of each block & the cost per sq. ft. will be as under.

	area ft.	cost.
Main building Hostel	19570. —	5-13-8.
Library	3,224. —	3-6-10.
Wardens quarters.	5,468. —	4-4-2
Kitchen & godown	649. —	1-13-1
Coach house & stalls	799. —	1-7-4
Gate Sergeants quarters	1,527 —	2-6-5.
Kitchen &c. for vegetarians	7306. —	1-7-8.
— do. for animal food.	5,871. —	1-6-6.

& these rates appear to be very fair considering that they are built of stock bricks in lime mortar.

In regard to the section of the girders being partly in excess of requirements & partly within, the following comparison will shew that the saving which would be [illegible] requirements

37

requirements is so very small that it is not worth noticing on a large estimate like this.

Thus the girders in Wardens Quarters, Dining and bed rooms at centre also office and upper bed rooms

As estimated

Girders 16" × 6" weighing 62 lbs.
4 × 23'0" = 92'0" × 62 —— = 5,704
Girders 12" × 6" weighing 42 lbs.
2 × 19'0" = 38'0" × 42 —— = 1,596
Total lbs 7,300

As now proposed

Girders 14" × 6" weighing 57 lbs
4 × 23'0" = 92'0" × 57 —— 5,244
Girders 14" × 6" weighing 46 lbs
2 × 19'0" = 38'0" × 46 lbs —— 1,748
Total lbs 6,992

The saving will only be (7,300 - 6,992) = 308 lbs or 0.1375 Tons which at Rs 190 (180 + 10) = only Rs 26.

The plans & estimates have not been counter-signed by the Honorary Secretaries of the Madras Students' Hostels Committee but they have been approved in the Educational Dept with the remark that the construction of the building should not be proceeded with pending further orders.*

* But in G.O. No. 267 [illegible] of 2-[illegible]-98, the P.W.D. was told that the construction of the building may be proceeded with; again in G.O. No. 1387 dated 22-6-98, the P.W.D. was asked to issue orders for its speedy construction.
15-7-98

A.C.K. 15.7.98
16.7.98

P.T.

88

W

In accordance with the usual practice hitherto observed in this office, 120 lbs has been taken as live load on terrace roofs. With this excessive load, the scantlings of the generally rolled steel beams are sufficient, as given by the Consulting Architect. ~~& the con~~

There is nothing to show what live load C. A. took for calculating his beams. Probably 80 lbs per sq. ft, as I notice he did in a Madras building.

2. Eighty lbs per sq. ft is ample live load for a terrace roof – the terrace, when set, being practically a self supporting beam – and it is suggested it be adopted in future in this office. I purpose, in due course, to make suggestions for further reduction.

3. Half this note is on mere-resumé of the works provided in the estimate. Is this wanted in future? It is desirable to expedite very considerably the progress of work in the T. branch, & I think technical notes might be confined to necessary entries [illegible] of plans & estimates

A. K. 13.2.88

This is sufficient

approved

The printed form with pres. arrangement Details given in [illegible] need not be [illegible] [illegible]

P