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Educational (1905) Department.

ORDINARY PRINTED.

G.O., No. 685

DATED 24—10—05

N. P.

INDEXED

ORIGINAL

[Despatch Abstract.]

Building grant

with remarks,

Sanctg, ~~subject to certain conditions~~, a grant not exceeding Rs 7500 towards the cost of the Extensions to the Town High School Building, Kumbakonam.

BACK PAPERS.

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

FURTHER PAPERS.

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

Government of Madras.

EDUCATIONAL DEPARTMENT.

2

Recd. } 1905. *Enclosures*

Regd. *Spare copies*

ORIGINAL

G.O., No. 685, 24th October 1905.

N. P.

Building grant.

Sanctioning, with remarks, a grant not exceeding Rs. 7,500, towards the cost of the extensions to the Town High School building, Kumbakónam.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—the following papers :—

I

Letter—from the Hon'ble Mr. A. G. Bourne, D.Sc., F.R.S., Director of Public Instruction, Madras.
To—the Secretary to Government, Educational Department.
Dated—the 8th June 1904.
No.—Ref. on Cur. No. 267 of 1903.

I have the honour to submit the enclosed plan with estimate amounting to Rs. 16,400 for extending the building occupied by the Town High school, Kumbakónam, and to recommend that, under rule 118 of the Grant-in-Aid Code, a grant of Rs. 5,466 be sanctioned to be paid after the completion of the building.

2. The proposed extension is for the Upper Secondary department (which consists of twelve classes) and the whole grant is therefore payable from Provincial funds.

3. From the particulars given in the margin it will be seen that the strength of the institution has been steadily increasing during the past five years. But the accommodation provided is insufficient and some of the classes are located in a temporary shed—an arrangement which, however, cannot be continued long.

Year.	Strength.
1899–1900	488
1900–1901	521
1901–1902	614
1902–1903	702
1903–1904	794

4. The amount of building grant drawn by this institution in previous years is as shown below :—

	Rs.
1890	4,830
1891	4,200
1893	4,000
1896	1,400
Total	14,430

This amount is no doubt somewhat large, but the school which is said to be one of the best-managed native institutions in the Presidency has a splendid building of its own and is in every way deserving of further encouragement. It receives no aid in the shape of salary grants. The management is vested in an association of native gentlemen registered under the Indian Companies Act.

5. The plan and estimate have been approved by the Public Works Department.

6. Out of the allotment for building grant in the current year's budget estimate payment of Rs. 1,902 has been authorized up to date.

II

Memorandum No. 1334-D., dated 7th September 1904.

The plans and estimate, the latter amounting to Rs. 16,400, for extending the present Town High school at Kumbakónam, Tanjore district, received with the Director's letter read above, are forwarded to the Superintending Engineer, V Circle, with the request that he will be so good as to revise and resubmit them at a very early date furnishing information on the points noticed below :—

(*a*) A plan of the upper floor should be submitted so that it may be ascertained what kind of pillar is provided.

(*b*) The nature of the surface and sub-soils should be stated. It should also be reported whether the existing walls are thoroughly capable of carrying an upper floor.

(*c*) It is observed that a portion of the building has an upper storey, but it is not known whether this was built originally with suitable foundations or whether it is only a subsequent addition.

(*d*) The cross sections do not show the foundations and no dimensions are marked. This should be done.

(*e*) Provision is made in the estimate for levelling the existing terrace with 3 inches concrete and flooring over it with 8 inches square bricks pointed with cement. There is however no provision for removing any part of the old terrace, so that, as it is, the above works will increase the thickness of the terrace by about six inches and its weight by 60 lb. An equal thickness of the old terrace should be removed before this is done if possible, and if not the estimate should provide for sufficiently strengthening the joists and girders.

(*f*) The dimensions of the existing beams and joists of the lower floor should be given, so that it may be seen how far they would be affected by the increased weight due to its conversion into a floor.

(*g*) The following errors are found in the estimate :—

(1) In brick in chunam, 14 cross, etc., walls are taken instead of 12 and in the deductions 30 windows are taken instead of 24.

(2) In semi-circular arch work for passages 2 are taken instead of 4.

(3) In cornice in small rooms the length should be 72 and not 56, and for parapet it should be 240 feet instead of 260.

(4) In plastering the circumference of the pillars is taken as $7\frac{1}{2}$ feet. If $1\frac{1}{4}$ feet diameter, as per brickwork which seems insufficient it should be 3·92 feet only. For parapet wall the length should be 240 feet and not 260 and in deductions 24 windows should be taken instead of 30.

(5) In teak wood the item of cambering pieces over girders should be divided by two and the contents reduced from 50 to 25 cubic feet.

(6) In the item of venetian windows 30 are taken instead of 24. This error goes into the item of painting.

(*h*) There is a lump sum provision of Rs. 500 for the erection of 2 stair-cases. Details should be furnished as to their location and the materials with which they are to be built.

W. B. deWinton,
Chief Engineer.

To the Superintending Engineer, V Circle, with plans and estimate.

III

Letter—from H. H. O'Connell, Esq., Superintending Engineer, V Circle.
To—the Chief Engineer, Public Works Department.
Dated—the 9th June 1905.
No.—403-W.

With reference to your Memorandum No. 1334 D., dated 7th September 1904, I have the honour to submit for sanction a revised plan and estimate amounting to Rs. 22,500 for extending the Town High School at Kumbakónam.

2. The Executive Engineer's letter No. 8,000, dated 7th December 1904 (copy enclosed) gives the information required on the points noticed in the memorandum under reply.

3. The Sub-divisional officer reports that the beams of the existing room are strong enough but that the joists are not strong enough (*vide* enclosed calculation sheets).

4. It is therefore proposed to remove the existing terrace entirely so as to remove the joists and beams and use them for the proposed upper storey terrace using fresh scantlings for the lower floor. Provision for the removal of the terrace and redoing the floor is made in the estimate.

Enclosures.

Letter—from A. H. Morin, Esq., Executive Engineer, Tanjore.
To—the Superintending Engineer, V Circle.
Dated—7th December 1904.
No.—8000.

With reference to your No. 574 T, dated 20th September 1904, I have the honour to enclose herewith an estimate (after duly being revised) for Rs. 19,000 for extending the Town High School at Kumbakónam and to report as under *seriatim* on the remarks of the Chief Engineer :—

(*a*) A plan of the upper storey is enclosed. The pillars are to be of brick-work and of circular section 1½′ in diameter on a rectangular base 3′ 6″ high.

(*b*) The nature of the surface and sub-soil is noted on the drawing. The existing walls can safely carry an upper storey.

(*c*) The portion of the building having an upper storey was originally so built with proper foundations.

(*d*) This has been attended to in the drawing.

(*e*) Provision is made in the estimate for removing the plastering of the terrace and one course of flat tiles with an average thickness of two inches of brick jelley will be laid in order to level up the terrace which at present slopes too much from the centre. The joists and beams will bear the increased weight.

(*f*) The information is noted in the drawing.

(*g*) (Items 1 to 6). These errors have been rectified in the revised drawing and estimate and call for no remarks.

(*h*) The stair cases are to be built of masonry in the verandah in the places marked in the plan and the verandah openings here have therefore been provided with windows.

2. The dimensions given for bressummers are the same as those in the existing upper storey and the calculations for girders as noted in the data sheet are based on a weight of 150 lb. to the square feet (*vide* Dormon Long and Company's catalogue). Local rates have been adopted where necessary.

Town High School at Kumbakónam.

Calculation for Rolled steel girders.

Girders placed 8 feet apart and 20 feet span—

Load = 20 × 8 × 150	24,000
Joists = 14 × 8 × ¼ × 1¾ × 46	697
Total lb. ..	24,697
or say Tons ..	11·00
Distributed load that 1 foot will carry = 20 × 11·00	22,000

Co-efficient b in Dormon Long and Company hand book Fig. G 8, page 67 = 226·2 of girder 12″ × 5″ weighing 39 lb. per foot run—

Girders placed 10 feet apart and 20 feet span—

Load = 20 × 10 × 150	30,000
Joists = 14 × 10 × ¼ × ⅔ × 46	1,073
Total lb. ..	31,073
or Tons ..	13·88
Distributed load that 1 foot will carry = 20 × 13·88	277·60

Co-efficient b in Dormon Long and Company hand book Fig. G 5, page 61 = 294·76 of girder 15″ × 5″ weighing 42 lb. per foot run—

Calculation for Teak Joists.

End rooms—

Length of joist between support 10 feet—

1 Joist load = $10 \times \frac{3}{2} \times 180 = 2{,}700$

$bd^3 = \frac{WL^2}{180} = \frac{2700 \times 10 \times 10}{180} = 1{,}500$

Make section 3″ × 8″

Class rooms—

Length of joist between support 8 feet—

1 Joist load = $8 \times \frac{3}{2} \times 180 = 2{,}160$

$bd^3 = \frac{WL^2}{180} = \frac{2160 \times 8 \times 8}{180} = 768$

Make section 3″ × 6½″

Verandah—

Length of joist between support 7′ 9″

1 Joist load = $\frac{31}{4} \times \frac{3}{2} \times 180 = \frac{4185}{2}$

$bd^3 = \frac{WL^2}{180} = \frac{4185}{2} \times \frac{31}{4} \times \frac{31}{4} \times \frac{1}{180} = 698$

Make section 3″ × 6″

IV

Note by the Chief Engineer, Public Works Department, dated 23rd August 1905.

In Memorandum No. 1334, dated 7th September 1904, the plans and estimate amounting to Rs. 16,400, for extending the present Town High School at Kumbakónam received from the Director of Public Instruction, were returned to the Superintending Engineer, V Circle, for revision and resubmission, with reference to certain instructions given in that memorandum. The Superintending Engineer now submits a revised estimate amounting to Rs. 22,500. The adoption of this estimate is recommended, with the following remarks :—

(*a*) When laying the new floor it would be advisable, if possible, to have it all on one level—preferably the upper level—and thus do away with the large number of steps from the verandah into the rooms.

(*b*) The proposed new verandahs would cause very great pressure, viz., six tons per square foot, at the foot of the columns in the lower storey. They must therefore be omitted altogether.

(*c*) Alterations should be made in the sections of scantlings as shown below :—

Item.	Section in estimate.	Section to be altered into.
Large class rooms (with joists 8 feet long) .. Rolled steel girders ..	12″ × 5″ weighing 39 lb.	B. S. B. No. 25, 15″ × 5″ weighing 42 lb.
Large rooms (with joists 10 feet long) .. Rolled steel girders ..	15″ × 5″ weighing 42 lb.	B. S. B. No. 24, 14″ × 6″ weighing 57 lb.
Verandahs.—		
Corner beams	4½″ × 7″	4½″ × 8″

Order—No. 685, Educational, dated 24th October 1905.

The Government are pleased to sanction a grant not exceeding Rs. 7,500 (seven thousand and five hundred) or one-third the total cost, whichever may be less, towards the cost of the extensions to the building now occupied by the Town High School, Kumbakónam, subject to the following conditions :—

(1) that the authorities of the school carry out the work in accordance with the revised estimate submitted by the Superintending Engineer, V Circle, and modified by the Chief Engineer, Public Works Department, in his note read above ;

(2) that the work is completed before the 31st December 1906 ;

(3) that a certificate of the actual expenditure incurred on the work is submitted before the 31st of January 1907;

(4) that all other conditions prescribed in the Grant-in-aid Code have been duly complied with.

2. On the above conditions being fulfilled the grant will be paid.

(True Extract.)

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

To the Director of Public Instruction, with plans and estimates.
,, Accountant-General.

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O., No. 685, EDUCATIONAL, DATED 24TH OCTOBER 1905.

[SUBJECT.—*Building grant for the Town High School, Kumbakónam.*]

From the Director of Public Instruction, dated 8th June 1904, *No.* 267.

Submitted that the Public Works Department may be requested to scrutinise the accompanying plans and estimate before the grant of Rs. 5,466 recommended by the Director is sanctioned.

N.L.R.—10-6-04.

P. T. THARYAN—11-6-04.

A. GALLETTI—11-6-04.

H. D. TAYLOR—12-6-04.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

A draft memorandum to the Superintending Engineer, V Circle, returning the estimate for revision and resubmission is submitted. The file may, after issuing the memorandum, be sent to the Educational Department for perusal and return.

C. V. GANGADHARA SASTRI—1-9-04.

W. B. DEWINTON—2-9-04.

[Memorandum No. 1334-D., dated 7th September 1904.]

The memorandum has issued. The file may now be forwarded to the Educational Department for perusal.

C. V. GANGADHARA SASTRI.

W. B. DEWINTON—9-9-04.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

Seen and returned.

H. D. TAYLOR—10-9-04.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

The reply of the Superintending Engineer, V Circle, to our memorandum, No. 1334-D., dated 7th September 1904, may now be awaited.

C. V. GANGADHARA SASTRI—10-9-04.

Yes.

T. W. S. SMYTH—12-9-04.

W. B. DEWINTON—12-9-04.

From the Superintending Engineer, V Circle, dated 9th June 1905, *No.* 403 *W.*

Note by the Chief Engineer, Public Works Department, dated 23rd August 1905.

The Superintending Engineer has been called on to submit information as to the nature of the foundations of the existing double-storied portion of the building. On receipt of this information such further remarks as the undersigned may have to offer will be submitted.

W. B. deWINTON—23-8-05.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

Submitted that the further remarks, if any, of the Chief Engineer may be awaited.

P. T. THARYAN—25-8-05.

A. GALLETTI—28-8-05.

PUBLIC WORKS DEPARTMENT.

With reference to Chief Engineer's note, dated 23rd August 1905, on the estimate for extending the present Town High School, Kumbakónam, it has been ascertained that the foundations are all right. No further remarks are therefore necessary.

C. V. GANGADHARA SASTRI.

S. B. MURRAY—9-10-05.

W. B. deWINTON—9-10-05.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

The question now for consideration is what is the amount of building grant that should be paid. The estimate, as revised in the Public Works Department, amounts to Rs. 22,500 and under rule 118 of the Grant-in-aid Code the maximum grant admissible is Rs. 7,500.

N.L.R.—11-10-05.

P. T. THARYAN—12-10-05.

A. GALLETTI—12-10-05.

Submitted that a maximum grant of Rs. 7,500 may be sanctioned, the work to be completed by 31st December 1906.

H. D. TAYLOR—13-10-05.

Director of Public Instruction?
This is provided for in the revised rules.
H. D. TAYLOR.

Yes. Before the contribution is actually paid, the Public Works Department must be satisfied that the total of Rs. 22,500 have been *bonâ fide* expended on the building.

G. S. F[ORBES]—14-10-05.

Draft.

H. D. TAYLOR—16-10-05.

The draft placed below is submitted for approval.

P. T. THARYAN—17-10-05.

A. GALLETTI—23-10-05.

Approved.

H. D. TAYLOR—24-10-05.

[G.O., No. 685, Educational, dated 24th October 1905.]

Stock Form No. 127
2,000—12-2-03.

Educational (190 4) Department.

ASSISTT SECY TO GOVT
10 JUN 1904
LOCAL MUNL PUL & LEG DEPTT

CURRENT No. 1035

From

[*Name*] The Hon'ble Mr. A.G. Bourne, D.Sc., F.R.S.,

[*Designation*] Director of Public Instruction,

[*Station*] Madras

Ref *No.* Con Cur No. 267 of 05 *Received* 9/6 190 .

Dated 8th June 190 4

Enclosures Three *Registered* 10-6 1904

SUBJECT.

Recommending that a grant of Rs 5466/- be sanctioned for extending the building occupied by the Town High School, Kumbakonam.

BACK PAPERS.

FURTHER PAPERS.

To

The Secretary to Government,

Educational Department.

Sir,

I have the honour to submit the enclosed plan with estimate amounting to Rs 16,400/- for extending the building occupied by the Town High School, Kumbakonam, and to recommend that, under Rule 119 of the Grant-in-Aid Code, a grant of Rs 5,466/- be sanctioned to be paid after the completion of the building.

2. The proposed extension is for the Upper Secondary department (which consists of twelve classes) and the whole grant is therefore payable from Provincial funds.

3. From the particulars given in the margin it will be seen that the strength of the institution has been steadily increasing during the past five years. But the accommodation provided is insufficient and some of the classes are located in a temporary shed-an arrangement which however cannot be continued long.

Year	Strength.
1899-00	488
1900-01	521
1901-02	614
1902-03	702
1903-04	794

4. The amount of building grant drawn by this institution in previous years is as shown below:-

	Rs
1890	4830
1891	4200
1893	4000
1896	1400
Total Rs	14400

Stock Form No. 141
10,000—30-12-04.

Public Works (1905) Department.

CURRENT No. 5704

From

[Name] H. H. Connell Esqre

[Designation] Suptg. Engineer, Nds.

[Station] Madras

No. 403 W.

Dated 9 June 1905.

Enclosures { Plans 3 / Others 7 } Total. 10

Spare copies

Received 11. 6. 1905.

Registered 190 .

Passed on, by— 14. 6. 05.

Registering Clerk 190 .

U. R. Clerk 14. 6. 1905.

Referencer 16. 6. 1905.

Record Supdt. 190 .

Drafting Officer 190 .

SUBJECT.

SECRETARY TO GOVERNMENT. 11 JUN 1905 PUBLIC WORKS DEPARTMENT.

Town High School at Kumbaconam. Submits for sanction a revised estimate of Rs. 22500 for extending the —.

BACK PAPERS.

FURTHER PAPERS.

d 2395

4

To

The Chief Engineer / ~~Secretary to Government~~, Public Works Department

Encls: 8+1

1. Plan of lower story existing
1-do-upper story
1-do-cross section
1. detailed estimate
1 abstract -do-
1. calculation sheet for strengths of girders.
1-do-for girders
1 report
1. copy of letter.

Sir,

With reference to your Memorandum No 1334D, dated 7th September 1904, I have the honour to submit for sanction a revised plan and estimate amounting to Rs 22,500 for extending the Town High School at Kumbakonam.

2. The Executive Engineer's letter No 8000 dated 7th December 1904 (copy enclosed) gives the information required on the points noticed in the memo under reply.

3. The Sub Divisional officer reports that the beams of the existing room are strong enough but that the joists are not strong enough (vide enclosed calculation sheets).

4. It is therefore proposed to remove the existing terrace entirely so as to remove the joists and beams and use them for the proposed upper story terrace using fresh scantlings for the lower floor. Provision for the removal of the terrace and redoing the floor is made in the estimate.

I have the honour to be,
Sir,
your most obedient servant,
/Mah. O'Connell
Subdy Engineer Devide.

Read

[E. 12]
1,000—21-9-04.

5

EDUCATIONAL DEPARTMENT.

READ AGAIN G.O., No. , dated 190 .
" " " " " 190 .

READ ALSO:—

C. No. 1035, From the D.P.I. No 267, dated 8-6- 1904.
" " " Superintending Engineer V circle 403W " 9-6- 1905.
" " " note by the Chief Engineer " 23-8- 1905.

ORDER No 685, dated 24-10- 1905.

P.S.

Dcop 24/10/05

The Govt are pleased to sanction a maximum grant not exceeding (seventhousandfivehundred) Rs 7,500 towards the cost (or one third the total cost, whichever may be less) of the extensions to the building now occupied by the Town High School, Kumbakonam, subject to the following conditions:-

(1) that the authorities of the School carry out the work in accordance with the revised Estimate submitted by the Superintending Engineer, V circle, and modified by the Chief Engineer P.W.D. in his note read above,

(2) that the work is completed before the 31st December 1906.

Read 24-10-05

(3) that a certificate of the actual expenditure incurred on the work is submitted before the 31st of January 1907.

(4) that all other conditions prescribed in the grant-in-aid Code have been duly complied with.

2. On the above conditions being fulfilled the grant will be paid.

PH 17/10/05

1/1 23.10.5

24 Oct 05

To the DPI with plans & estimates. ✓

- AG. ✓

11/11/5

First copy sent to Press.

Returned for signature.

Despatched in print.

NUMBER OF COPIES REQUIRED. { Order complete. 30 / Letter only. / Order complete with Letter.

READ AGAIN G.O., No. 190 , DATED

CURRENT No. 8 1085 — A — I

PWD Memo 1334-7-9-04 II A

" Cuo 5704 — A III

ENCLOSURES TO C. No. Chief Engr Note — A — IV.

ORDER OF GOVERNMENT .. A .. .. ..

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

PAPERS NOT FILED (IF) BEING MEANT FOR DESPATCH IN ORIGINAL.

N.B.—
A = Print in full.
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