

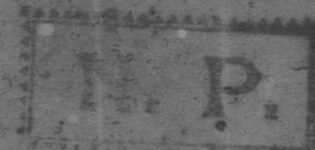
[E]
201-17-12-02

Educational (1905) Department.

ORDINARY PRINTED.

G.O., No. 272

DATED 26.4.05.



INDEXED

ORIGINAL

[Despatch Abstract.]

Building Grant.

*Large sum remitted a - of sub ...
to 2500, towards the cost of constructing
a building for the ...
Bafella.*

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 {1905} of Madras. EDUCATIONAL.

Recd.

Regd.

1905.

Enclosures

Spare copies

ORIGINAL

G.O., No. 272, 26th April 1905.

N. P.

APRIL.

Building Grant.

Sanctioning, with remarks, a — not exceeding Rs. 2,500 towards the cost of constructing a building for the Board High School, Bapatla.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—again the following paper:—

G.O., No. 551, Educational, dated 7th September 1904.

Read—the following paper:—

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 15th June 1904, Ref. on Cur. No. 3377.

I have the honour to submit the enclosed plan with estimate amounting to Rupees 10,700 for the construction of a building for the Board High School, Bapatla, and to recommend that under rule 118 of the Grant-in-Aid Code a proportionate grant of Rs. 3,120 be sanctioned. The plan and estimate have been approved by the Public Works Department authorities.

2. The necessity for the proposed building is explained in column 12 of the application for grant which is herewith submitted.

3. The plan and estimates have been approved by the Superintending Engineer, II Circle.

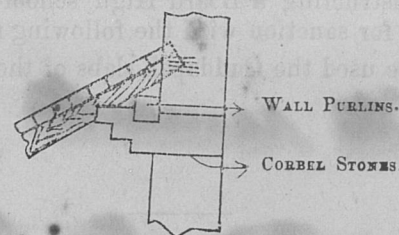
4. Out of the allotment for building grant in the current year's budget estimate payment of Rs. 1,902 has been authorized up to date.

Note by the Chief Engineer, Public Works Department.

The plan and estimate, the latter amounting to Rs. 10,700, for constructing a Board High School at Bapatla in the Kistna district, have been scrutinised in this office and the following remarks are offered:—

(1) The floor provided for, is a very bad one for a school. It would be better to use plain Cuddapah slabs pointed with cement over 6" sand. The increase in cost will be about Rs. 30 and is not much when compared with the superiority of the flooring obtained thereby.

(2) The verandah rafters should not be let into the walls, but should be nailed to wall purlins supported at intervals of about $5\frac{1}{2}$ feet on cut-stone corbels as per sketch below. The section of the wall purlins should be $3" \times 4\frac{1}{2}"$.



(3) From the nature of the design there appear to be only 4 valleys, but in the item of teakwood 8 valley rafters are provided. Probably it is intended to use double ones. If so the dimensions can be reduced to $2" \times 5\frac{1}{4}"$.

(4) The lengths of the rafters for main roof and verandah are 14 feet and 12 feet against $13\frac{1}{2}$ feet and 11 feet. The slope for Mangalore tiled roof of main rooms should be 14 feet and not $14\frac{1}{2}$ feet.

(5) The requirements of iron work are wrongly calculated. They have been corrected in pencil in estimate and reduced from 927 to 513 lb.

(6) The provision in the item of woodwork of "walling pieces over bressummers $2 \times 37 \times 4\frac{1}{2} \times 2$ " is unnecessary.

(7) There is a provision of one bricklayer per 100 c.ft. for making out courses of concrete. This is too much $\frac{1}{2}$ bricklayer labour is enough. 500 c.ft. concrete can be easily laid in a day.

(8) *Plastering with chunam.*—Two bricklayers are ample against $2\frac{1}{2}$ provided for.

(9) Nails and screws are omitted in the materials for Mangalore tiled roofing.

W. B. DEWINTON,
Chief Engineer.

2nd September 1904.

Order—No. 551, Educational, dated 7th September 1904.

The remarks of the Chief Engineer on the estimate forwarded with the Director's letter read above, will be communicated to the Director with the request that the manager of the Board High School, Bapatla, may be required to revise the estimate with reference to those remarks.

(True Extract.)

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

To the Director of Public Instruction, with plan and estimate and copy of Chief Engineer's note.

Read—also the following paper:—

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 2nd February 1905, Ref. on Cur. No. 3377 of 1904.

With reference to G.O., No. 551, Educational, dated 7th September 1904, I have the honour to submit a revised estimate for Rs. 11,540 received from the Manager, Board High School, Bapatla.

2. The plan and estimate returned with the above Government Order are also herewith submitted.

Note by the Chief Engineer, Public Works Department.

The estimate, for constructing a Board High school at Bapatla, in the Kistna District, is recommended for sanction with the following remarks:—

As concrete is to be used the Cuddapah slabs of the floor may be reduced to $1\frac{1}{2}"$ in thickness.

W. B. DEWINTON,
Chief Engineer.

24th March 1905.

ORDER—No. 272, Educational, dated 26th April 1905.

The Government are pleased to sanction a grant not exceeding Rs. 2,500 towards the cost of constructing a building for the Board High School, Bapatla, subject to the following conditions:—

(1) that the authorities of the school carry out the work in accordance with the estimate as now approved;

(2) that the work is completed before the 1st of February 1906 ;

(3) that a certificate of the actual expenditure incurred on the work is submitted before the 21st of February 1906 ;

(4) that the deed of agreement prescribed in rule 120 of the Grant-in-Aid Code is executed before the 15th of March 1906.

2. On these conditions being satisfied the grant will be paid before the close of March 1906.

(True Extract.)

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

To the Director of Public Instruction, with plans and
estimates and with a copy of the Public
Works Department note.
,, Accountant-General.

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O., No. 272, EDUCATIONAL, DATED
26TH APRIL 1905.

[SUBJECT.—*Building Grant for the Board High School, Bapatla.*]

From the Director of Public Instruction, No. 3377, dated 15th June 1904.

The plan and estimate may be forwarded u.o. to the Public Works Department for scrutiny before the grant of Rs. 3,120 recommended by the Director is sanctioned. It is however observed that under rule 118 of the Grant-in-Aid Code the school is ordinarily entitled to draw one-third grant, viz., Rs. 3,566 and it is not explained by the Director why the ordinary grant has been cut down to Rs. 3,120. The Director may perhaps be * asked by memorandum about this after sending the estimate to the Public Works Department for scrutiny.

* Done.

P. T. THARYAN—20-6-04.

N.L.R.—17-6-04.

P. T. THARYAN—17-6-04.

A. GALLETTI—17-6-04.

Yes.

H. D. TAYLOR—17-6-04.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

[*Note by the Chief Engineer, Public Works Department, dated 2nd September 1904.*]

EDUCATIONAL DEPARTMENT.

The estimate should be revised accordingly.

H. D. TAYLOR—6-9-04.

The draft placed below is submitted for approval.

R.N.—6-9-04.

P. T. THARYAN—7-9-04.

Issue.

A. GALLETTI—7-9-04.

[G.O., No. 551, Educational, dated 7th September 1904.]

From the Director of Public Instruction, No. 3377, dated 2nd February 1905.

The Director of Public Instruction submits a revised estimate for Rs. 11,540 for the construction of a building for the Board High School, Bapatla. The estimate is stated to have been revised in accordance with the instructions of the Chief Engineer, communicated with G.O., No. 551, Educational, dated 7th September 1904—*vide*

letter from the President, Taluk Board, Guntur, to the President, District Board, Kistna. The Public Works Department may be asked u.o. to state if all the alterations have been carried out and if the revised estimate may be accepted as correct.

H. D. TAYLOR.

2. If the revised estimate is accepted by the Public Works Department, the question of the amount of the grant to be paid may afterwards be considered.

N.L.R.—23-2-05.

[G.O., No. 551, Educational, dated 7th September 1904, required for the disposal of this file was received back from the Public Works Department only yesterday.]

P. T. THARYAN—24-2-05.

A. GALLETTI—24-2-05.

H. D. TAYLOR—27-2-05.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

Submitted.

P. K. SUBBA AIYAR—28-2-05.

S. B. MURRAY—1-3-05.

Note by Technical Section.

Name of work.—Revised estimate for constructing a Board High School at Bapatla in the Kistna district. Amount of estimate, Rs. 11,540.

The original estimate for this work, amounting to Rs. 10,700, was returned for revision with Chief Engineer's note of 2nd September 1904. It is now resubmitted duly revised, as noted below.

(1) A two-inch Cuddapah slab floor is provided over $4\frac{1}{2}$ " concrete, instead of 6" sand, the District Board Engineer stating that in his experience 6" of sand will not form a firm base for the slabs, especially as the floor is to be used by school boys.

S. B. MURRAY.

(2) Corbel stones are now provided to carry the purlins to which the ends of the verandah rafters will be fixed.

(3) The scantlings of the valley rafters have been reduced to $2'' \times 5\frac{1}{4}''$; it is intended to use donke valley rafters.

(4) The figures relating to the length of rafters and width of roof have been altered, but the length of the verandah rafters, it is stated, should be $11\frac{1}{2}'$. This is now shown to be obtained by allowing the rafters to project $1\frac{1}{4}'$ beyond the face of the basement, whereby the semi-span would be $10\frac{1}{4}'$. But as drawn it is only $10'$ in rear and $9\frac{1}{2}'$ in front. This shows the necessity of drawing plans more carefully and noting detailed figured dimensions.

(5) The corrections for iron work have been carried out.

(6) The walling pieces over the bressummers have been omitted.

(7) The provision of one bricklayer, in the data for concrete, has been reduced to one-fifth.

(8) The provision of $2\frac{1}{2}$ bricklayers, in the data for plastering, has been reduced to 2.

(9) The cost of screws and nails have been now included in the data for Mangalore tile-roofing.

In addition to the above corrections the District Board Engineer states that, owing to the rise in price of Burmah teak, he has increased the rate for teakwood, in

scantlings and reepers, to Rs. 4 per cubic foot. It would appear that the rate paid for teakwood by the Public Works Department is Rs. 4-2-0 per cubic foot at Bezwada.

Yes; it is getting very dear everywhere.

S. B. MURRAY.

The data gives a rate of Rs. 30 per 100 square feet for 2" Cuddapah slabs. But as per data below it works out to Rs. 27-12-0 per 100 square feet.

Flooring 3,636 square feet.
Thickness of stone 2"
Weight per cubic foot 170 lb.
∴ Weight of stones required = $3,636 \times \frac{1}{8} \times 170 = 103,020$ lb. or 46 tons or 1,252 maunds.

Train fare = 1252×168 pies $\times 449$ miles Rs. 491-98
Terminal charges = 1252×8 pies 52-17
Slabs cost— $3,636 \times$ Rs. $4\frac{1}{2}$ per 100 sq. ft. 167-71
Loading and unloading charges 16-00
Cart hire 23-00

Total .. 750-86

∴ 100 square feet cost $\frac{750-86}{36-36}$ 20-65
or say .. 21

Data.	RS.	A.	P.
100 square feet slabs	21	0	0
1 bricklayer at As. 10	0	10	0
2 masons at As. 9 each	1	2	0
2 men at As. 4 each	0	8	0
1 boy at As. 2	0	2	0
1-3 paras of lime at As. 8	0	10	5
2-6 paras of sand at As. 3	0	7	10
2-6 paras of grinding mortar at 1 anna	0	2	9
Pointing with cement	2	12	0

Total .. 27 7 0
Sundries .. 0 5 0

Total rate for 100 square feet .. 27 12 0
In estimate .. 30 0 0

I should say $1\frac{1}{2}''$ slabs would do.

S. B. MURRAY.

Yes as concrete is to be used.

W. B. DEWINTON.

If $1\frac{1}{2}''$ slabs are used instead, the cost would be reduced to Rs. 17 per 100 square feet.

If the cost of concrete is added the above rate becomes Rs. 38-4-0 per 100 square feet.

Sand will do very well.

S. B. MURRAY.

2. By using 6" sand below the slabs the rate is as follows:—

Better have concrete for all the running about of a school.

W. B. DEWINTON.

	RS.	A.	P.
Slabs	21	0	0
50 cubic feet or 21-74 paras of sand at As. 3	4	12	2
Labour as above	2	6	0
Pointing	2	12	0

Total .. 30 14 2
Sundries .. 0 5 10

Total per 100 square feet .. 31 4 0

or Rs. 7 cheaper than by fixing the slabs on concrete.

The estimate is countersigned by the Vice-President, Guntur Taluk Board, and approved in the Educational Department.

D.R.—14-3-05.

May be sanctioned.

S. B. MURRAY—14-3-05.

W. B. DEWINTON—14-3-05.

The revised estimate has been checked. It may be approved subject to the remark that as concrete is to be used $1\frac{1}{2}$ " Cuddapah slabs will do for the floor.

P. K. SUBBA AIYAR—24-3-05.

S. B. MURRAY—24-3-05.

W. B. DEWINTON—24-3-05.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

Note by the Chief Engineer, Public Works Department, dated 24th March 1905.

The original estimate was * Rs. 10,700, and the Director of Public Instruction

* As revised, Rs. 11,540.

H. D. TAYLOR.

was asked to state how he calculated the building grant of Rs. 3,120 as recommended by him (G.O., No. 551, dated 7th September 1904). His reply does not appear to have been received. The amount of grant has to be fixed.

H. D. TAYLOR—25-3-05.

The Director of Public Instruction's reply referred to was received in July last and will be found in G.O., R. No. 333, Educational, dated 9th July 1904, which is in the file.

2. If, as advised by the Public Works Department $1\frac{1}{2}$ " Cuddapah slabs are used for the floor, the revised estimate of Rs. 11,540 submitted by the Director of Public Instruction will be reduced to Rs. 11,067 as shown below :—

	RS.
Provision made in the estimate for flooring with Cuddapah slab 2" thick for 3,636 sq. ft. at Rs. 30 per 100 sq. ft.	1,091
Amount required for flooring with Cuddapah slab $1\frac{1}{2}$ " thick for 3,636 sq. ft. at Rs. 17 per 100 sq. ft.	618
Difference	473
Revised estimate	11,540
Amount to be deducted on account of the reduction in the estimate for Cuddapah slab flooring	473
Total estimate as now reduced	11,067

3. The amount of grant payable will have to be calculated on this estimate and this amount will, according to the Director's calculations in his letter in G.O., R. No. 333, Educational, dated 9th July 1904, come to Rs. $11,067 \times \frac{7}{8} \times \frac{1}{3} = \text{Rs. } \frac{25,323}{8}$ or Rs. 3,228 in round figures.

4. After the amount of grant to be paid has been settled, the Public Works Department may be asked to fix a date within which the work can be completed.

N.L.R.—29-3-05.

The maximum grant admissible will be Rs. 3,228. Orders are solicited as to how much of this may be promised.

P. T. THARYAN—29-3-05.

A. GALLETTI—30-3-05.

Submitted that a maximum grant of Rs. 2,500 may be made for the construction of the Board High School, Bapatla.

H. D. TAYLOR—1-4-05.

Yes, Rs. 2,500.

J. T[HOMSON]—3-4-05.

Draft.

H. D. TAYLOR—4-4-05.

The Public Works Department may be asked u.o. to fix a date within which the work can be completed so that the usual conditions may be inserted in the draft order.

K.K.M.—6-4-05.

P. T. THARYAN—6-4-05.

A. GALLETTI—7-4-05.

H. D. TAYLOR—8-4-05.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

The time within which the work can be completed has to be fixed.

P. K. SUBBA AIYAR—11-4-05.

Nine months should be ample.

S. B. MURRAY—17-4-05.

Yes.

W. B. DEWINTON—17-4-05.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

Draft please. To be completed by 1st February 1906; certificate by 21st February; deed executed, 15th March; payment in March 1906.

H. D. TAYLOR—20-4-05.

The draft placed below is submitted for approval.

N.L.R.—21-4-05.

P. T. THARYAN—22-4-05.

A. GALLETTI—25-4-05.

H. D. TAYLOR—26-4-05.

[G.O., No. 272, Educational, dated 26th April 1905.]

Educational (190⁵) Department.

CURRENT No. 191

From

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

[Designation] Director of Public Instruction,

[Station] Madras



Ref No. Cur No. 3577 of 04

Dated 2nd February 190⁵

Enclosures Plan and estimate.

Received 190⁵

Registered 4-2-1905

SUBJECT.
Submitting with reference to G.O. No. 551 Edl. d/7th Sep. 04
revised estimate for the construction of a building for the
Board High School, Bapatla.

BACK PAPERS.

To 551: 7-9-04, [unclear]

FURTHER PAPERS.

N.Y. 9-2

(3) that a certificate of the actual expenditure incurred on the work is submitted before the 21st of February, 1906

Page 27 of 80 no. 59081 F
22-9-04

(4) that the deed of agreement prescribed
in rule 120 of the Grant-in-aid code
is executed before the 15th of March 1906.

2. On these conditions being satisfied
the grant will be paid ^(before the close of) March 1906.

22/4/5

25/6/5

22/4/5

26-0-0

To the D.P.D. with plans & estimates
with a copy of the O.W.D. note.
AG. ✓

5. Copies done

7/7/5

at to Press.

for signature.

ed in print.

O., No.
90

DATED

No.

UES TO C. No.

OF GOVERNMENT

TER OF GOVERNMENT.

AGEMENT WITH DITTO.

EDS NOT FILED UP, BEING IN ORIGINAL.

N.B.—

- A = Print in full.
- B = Not to be printed.
- P = Print abstract only.
- Q = Print heading only.

NUMBER OF COPIES
REQUIRED.

Order complete.
Letter only.
Order complete with Letter.