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100-10-1-06
Educational (1907) Department.

ORDINARY PRINTED.

G.O., No. 61

DATED 5-2-7

(34)

[Despatch Abstract.]

American Mission Hindu girls' school at Chittoor

Sanctioning a maximum
grant of Rs 1500 towards the cost of a building for
—, subject to certain conditions.

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.

Recd.

Regd.

} 1907.

Enclosures

Spare copies

G.O., No. 61, 5th February 1907.

American Mission Hindu Girls' School at Chittoor.

Sanctioning, subject to certain conditions, a maximum grant of Rs. 1,500 towards the cost of constructing a building for the —.

Government of Madras.

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G.O., No. 61, 5th February 1907.

American Mission Hindu Girls' School at Chittoor.

Sanctioning, subject to certain conditions; a maximum grant of Rs. 1,500 towards the cost of constructing a building for the —.

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.
To—the Secretary to Government, Educational Department.
Dated—Madras, the 20th August 1906.
No.—Ref. on C. No. 5771.

I have the honour to submit the enclosed plan with estimate amounting to Rs. 4,050 for the construction of a building for the Hindu Girls' school at Chittoor managed by the American Mission, and to recommend that a grant of Rs. 1,350 may be sanctioned under rule 51 of the Grant-in-Aid Code, to be paid before the close of the current official year.

2. The school is attended by about 100 pupils, and is intended to serve as a model school in connection with the American Mission Training school for Mistresses as well as to provide for ordinary female education in Chittoor. It is now held in a rented building inconveniently situated and with insanitary surroundings. The building is unsuitable for educational purposes.

3. Out of the allotment for building grant in the current year's allotment payment of Rs. 8,400 has been authorized up to date.

II

Memorandum No. 517, Educational, dated 11th October 1906.

The Director of Public Instruction is informed that the plan and estimate for the construction of a building for the American Mission Hindu Girls' school at Chittoor submitted with his letter No. 5771 of the 20th August 1906 appear to require revision with reference to the following remarks. He is accordingly requested to ask the manager of the school to revise and resubmit them as soon as possible together with any observation that he may have to offer:—

(1) A foundation of $4\frac{1}{2}$ feet is provided in the estimate; but $3\frac{1}{2}$ feet will be enough, $2\frac{1}{2}$ feet concrete and the remainder brick in chunam.

(2) The rates specified below are in excess of those entered in the schedule of the Public Works Department—

	Estimate.			Public Works Department schedule.		
	RS.	A.	P.	RS.	A.	P.
Concrete in mortar	10	0	0	8	0	0
Brick in mortar	16	0	0	15	0	0
Archwork in mortar	17	0	0	16	0	0
Teak batten windows	1	2	0	0	14	0
Flooring with country tiles over 3" concrete	8	0	0	7	8	0

Either the rates in the estimate should be reduced or a data statement furnished.

(3) Girders $15" \times 5" \times 42$ lbs. are more suitable than $14" \times 6" \times 57$ lbs. for both the large and the small room.

(4) The upper ends of the rafters should not be let into the walls: they should be nailed on to wall purlins supported on corbel stones.

(5) The lower room has the minimum admissible height of 12 feet. As this will make the room insufferably hot if at all crowded it is desirable that at least another 3 feet should be added to the height. If this is not done, ventilating windows should be provided at the top protected by weather boards to keep out the sun.

(6) The upstairs room has only 6 feet walls and this room also would be insufficiently ventilated and hot.

(7) The stair case is badly placed and fills up one room to a considerable extent.

(8) The 6 feet verandah provided for is of very little use.

(9) The continuous dead wall on one side of the building which appears from the drawings to be proposed will exclude both light and air and should be provided with suitable openings.

(10) The latrine is too close to the main room and is likely to prove very offensive.

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

III

Letter—from Rev. J. A. BEATHE, M.A., Manager, American Mission Hindu Girls' School, Chittoor.

To—the Director of Public Instruction.

Dated—the 29th November 1906.

No.—294.

With reference to your C. No. 5771 of 1906, dated 23rd October, I put the plan and estimate for said school in the hands of P. Hawkins, Esq., Executive Engineer of North Arcot district. He has retraced the plan and re-written the estimates including the corrections that were possible. The ten paragraphs of remarks in your letter of October 23rd have been carefully considered by him with the following result:—

(1) The depth of the foundation cannot be reduced with safety to the building "as the white Morrum so called contains decayed felspar which is unsound when wet".

(2) The rates entered in this new estimate are those of the Public Works Department including cartage charges.

(3) The girders are those usually used by Public Works Department.

(4) Changed as per your remark.

(5) Lower walls have been raised 3 feet.

(6) Upper walls have been raised 4 feet.

(7) We have not been able to change the stair case. We cannot put it outside owing to the next building. Besides, the space under the stair case will not be lost as it is to be built in and used for a necessary store-room.

(8) We cannot enlarge verandah owing to space limitations. It is simply a cover for downstairs and upstairs entrances.

(9) Ventilators have been put in the dead wall though they will not all be of the usual value owing to nearness of next building.

(10) The limits of the lot prevent us putting the latrine further away, but it has sun exposure and will be kept in a sanitary condition. The rear wall of the school has purposely been kept blank to avoid offensiveness.

The annotated plan and estimates as well as the revised plan and estimates, which were made for sake of clearness, are herewith submitted, under book-post cover.

I have the honour to ask that they may be finally approved and returned at an early date.

VI

Ref. on C. No. 5771, dated 19th December 1906.

Submitted to the Secretary to Government, Educational Department, with reference to Memorandum No. 517, Educational, dated 11th October 1906.

T. T. LOGAN,
Ag. Director of Public Instruction.

Order—No. 61, Educational, dated 5th February 1907.

The Government are pleased to sanction a maximum grant of Rs. 1,500 towards the cost of constructing a building for the American Mission Hindu Girls' school at Chittoor, subject to the following conditions:—

- (1) that the work is carried out in accordance with the estimate as now revised;
- (2) that the work is completed before the 1st April 1908;
- (3) that a certificate of the actual expenditure incurred on the work is submitted before the 1st June 1908;
- (4) that the amount expended on the work does not fall short of Rs. 4,500 as actually verified;
- (5) 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 as funds become available.

(True Extract.)

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

To the Director of Public Instruction, with plan and estimate.
" Accountant-General.

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O., No. 61, EDUCATIONAL, DATED
5TH FEBRUARY 1907.

[SUBJECT.—Grant-in-Aid for the American Mission Hindu Girls' School, Chittoor.]

From the Director of Public Instruction, dated 20th August 1906, No. 5771.

The Director of Public Instruction submits a plan and an estimate, amounting to Rs. 4,050, for the construction of a building for the American Mission Hindu Girls' School at Chittoor and recommends that a grant of Rs. 1,350 or one-third of the cost may be sanctioned under Rule 51 of the Grant-in-Aid Code to be paid before the close of the current official year. Under rule 51 one-third is the maximum amount payable. The school is attended by about 100 pupils. It is now held in a rented building inconveniently situated and with insanitary surroundings. Before a decision is arrived at regarding the amount to be promised, it is submitted that the plan and the estimate may be forwarded u.o. to the Public Works Department for the usual scrutiny.

P.K.M.—28-8-06

P. T. THARYAN—28-8-06.

Please first check with reference to the provisos of rule 51.

C. G. MACKAY—29-8-06.

Submitted that we have no information as to the number of pupils in each class, nor as to the number of pupils who will be using each class room. The Director and the Inspecting officers will satisfy themselves about this before actually disbursing the grant.

P. T. THARYAN—29-8-06.

Perhaps we may send to Public Works Department now.

C. G. MACKAY—30-8-06.

H. D. TAYLOR—31-8-06.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

For scrutiny.

P.V.—3-9-06.

A. G. ROMILLY—3-9-06.

NOTE BY TECHNICAL SECTION.

From the Educational Department, No. 610-D. of 1st September 1906.

Name of officer.—Plan and estimate are prepared by an Engineer Subordinate student.

Name of work.—Constructing a Hindu Girls' school at Chittoor, North Arcot district.

	RS.
Amount of estimate	4,050

Particulars of estimate—

Main building	..	..	..	..	..	..	..	4,036
Contingencies	..	..	..	..	..	..	..	14
Total	..	..	..	..	..	..	..	4,050

PARTICULARS OF CONSTRUCTION—

Surface soil.—Alluvial down to 3 feet.

Sub-soil.—White moorum—vide note on plan.

No necessity to dig into the moorum; 3' 6" will be enough.
 2½' concrete; remainder brick.

Foundations.—4½ feet deep, of which the lower 3½ feet will be concrete of broken stone in chunam and the remainder brick in chunam.

Yes.

J. P. DAVIDSON.

Basement.—2 feet high of brick in chunam.

Walls.—Will be raised to the heights marked on the plan with brick in chunam.
 Arch work over doors and windows will be built with the same materials.

Roof timbers.—Junglewood trusses, rafters, etc., steel girders and joists for first floor.

Roofing.—Flat and pan tiles.

Flooring.—Country tiles over 3" concrete.

The size of the bricks not stated if pointed cement should be used.

Plastering.—Inside and outside, two coats.

Doors and windows.—Teakwood as per estimate.

Painting and wood-oiling.—Doors, windows and stair-case, two coats, and wood-oiling the roof timbers, two coats.

Scautlings.—Vide calculations.

Rates.—Vide remarks.

The plans and estimates have been countersigned by the Director of Public Instruction and approved in the Educational Department.

Remarks.—At present the school is held in a rented building inconveniently situated and with insanitary surroundings. The building is unsuitable for Educational purposes.

The following accommodation is provided:—

Ground floor—								
One room	..	..	..	..	..	..	37' 6" × 20' 0"	
One room containing the stair-case	..	..	..	..	..	..	20' 0" × 16' 0"	
One verandah at end	..	..	..	..	..	..	6 feet wide.	
Open latrine attached at the other end	..	..	..	..	..	..	26' 6" × 9' 0"	
First floor—								
One room	..	..	..	..	..	..	37' 10½" × 20' 4½"	
One room with stair-case	..	..	..	..	..	..	20' 4½" × 16' 4½"	

Rates.

The following rates are in excess of those in the schedule:—

Data required.		In estimate.			In schedule.		
		RS.	A.	P.	RS.	A.	P.
Yes.	Concrete in mortar	..	..	..	10	0	0
J. P. DAVIDSON.	Brick in mortar	..	..	..	16	0	0
* Is for 8" square bricks on 4" concrete pointed with asphalt.	Archwork in mortar	..	..	..	17	0	0
	Teak batten windows	..	..	..	1	2	0
	Flooring with country tiles over 3" concrete	..	..	..	8	0	0

Calculations.

Ground floor—large room—

Joists—unsupported length = $\frac{37.5}{6} = 7\frac{1}{2}$ feet junglewood.Load = $7\frac{1}{2} \times 1\frac{1}{2} \times 150$ 1,687 feet $bd^3 = \frac{WL^2}{140} = \frac{1,687 \times (7\frac{1}{2})^2}{140}$ 678

Make section 3" × 6"

In estimate 3" × 6"

Joists in small room—

Load = $8 \times 1\frac{1}{2} \times 150$ 1,800 $bd^3 = \frac{WL^2}{140} = \frac{1,800 \times 8^2}{140}$ 823

Make section 3" × 6½"

In estimate 3" × 6"

Rolled steel girders—large room—

Load = $20 = 7\frac{1}{2} \times 150$ 22,500Joists = $14 \times 7\frac{1}{2} \times \frac{1}{4} \times \frac{1}{2} \times 146$ 630

Approximate weight of girder 840

Total lb. .. 23,970

or tons .. 10.70

Distributed load in tons that 1 foot of span will carry = $10.70 \times 20 = 214$.
 With co-efficient, 1/8, col. c. of Dorman Long and Co.'s handbook, a girder 15" × 5' × 42 lb. is the most suitable against 14" × 6" × 57 lb. provided in the estimate. A similar girder is found to be suitable for the small room also.

Verandah—flat and pan tile roof—

Rafters 1½ feet centres—

Load = $6.51 \times 1\frac{1}{2} \times 30$ 293 $bd^3 = \frac{WL^2}{140} = \frac{293 \times (6.51)^2}{140}$ 86

Make section 2" × 3½"

In estimate 2" × 4"

Bressummers—

Unsupported length 7' 10" nearly.

Load = $7\frac{3}{8} \times 5.31 \times 30$ 1,248Rafters = $6 \times 5.31 \times \frac{1}{8} \times \frac{7}{4} \times 46$ 74

Total lb. .. 1,312

 $bd^3 = \frac{WL^2}{140} = \frac{1,312 \times (7\frac{3}{8})^2}{140}$ 574

Make section 4" × 5½"

In estimate 5" × 6"

Wall purlins on corbel stones 5½ feet centres.

Load = $5\frac{3}{8} \times 3\frac{1}{2} \times 30$ 524Rafters = $4 \times 3\frac{1}{4} \times \frac{1}{8} \times \frac{7}{4} \times 46$ 46

Total lb. .. 570

 $bd^3 = \frac{WL^2}{140} = \frac{570 \times (5\frac{3}{8})^2}{140}$ 117

Make section 3" × 3½"

Yes. Should always be done.

Yes.

J. P. DAVIDSON—25-9-06.

The upper ends of the rafters should not be let into the walls; they should be raised on to wall purlins supported on corbel stones.

First floor roof—large room, flat and pan tiles, ½ pitch weight .. 54 lb. per square foot.

Common rafters 1½ feet centres.

Load = $6.45 \times 1\frac{1}{2} \times 54$ 522 $bd^3 = \frac{WL^2}{140} = \frac{522 \times (6.45)^2}{140}$ 155

Make section 2½" × 4"

In estimate 2" × 4"

61 Edl.—2

EDUCATIONAL DEPARTMENT.

Purlins—

Unsupported length	7.57
Load = $7.57 \times 6.45 \times 54$	2,636
Rafters = $6 \times 6.45 \times \frac{5}{4} \times \frac{1}{3} \times 46$	129

Total lb. .. 2,765

$$bd^3 = \frac{WL^3}{180} = \frac{2,765 \times (7.57)^3}{180} = \dots \dots \dots 1,132$$

Make section	5" x 6"
In estimate	5' x 7"

Principal rafters—

Load on purlin	2,765
Purlin = $7.57 \times \frac{5}{12} \times \frac{1}{3} \times 46$	74

Total lb. .. 2,839

$$bd^3 = \frac{WL^3}{180} = \frac{2,839 \times (6.45)^3}{180} = \dots \dots \dots 844$$

Make section	4" x 6"
In estimate	4" x $\frac{1}{2}$ "
Make tie beam	4" x $6\frac{1}{2}$ "
In estimate	4" x $7\frac{1}{2}$ "

Purlins in small room—

Unsupported length	8.18 feet.
Load = $8.18 \times 6.45 \times 54$	2,819
Rafters = $6 \times 6.45 \times \frac{5}{4} \times \frac{1}{3} \times 46$	129

Total lb. .. 2,978

$$bd^3 = \frac{WL^3}{180} = \frac{2,978 \times (8.18)^3}{180} = \dots \dots \dots 1,423$$

Make section	5" x $6\frac{1}{2}$ "
In estimate	5" x 7"

Principal rafters may be same as for large room.

D.C.—21-9-06.

If this is to serve as a model for girls' schools I think there is room for improvement. The stair case might be better placed. As it is it spoils two fairly good rooms. The provision of a latrine actually abutting on the building is most objectionable.

However Educational have been satisfied, but in any case I would move the latrine.

A. G. ROMILLY—24-9-06.

The lower room has the minimum admissible height 12 feet; it will, if at all crowded, be I should say insufferably hot, as there is no escape for the heated air. Personally I should like at least another 3 feet added to the height of this room; if left as it is, it should have ventilating windows at the top protected by weather boards to keep out the sun. The upstairs room has only 6 feet walls; consequently, the average height of roof here is even less than in the lower room, and this room ought also to be precious stuffy and hot. Nothing is said as to number of pupils to occupy the various rooms, so it is not possible to discuss the accommodation. The stair case is badly placed, and fills up one room to a considerable extent. The 6 feet verandah is of very little use. Judging from the drawings there is to be a continuous dead wall on one side of the building excluding both light and air. The latrine, as noted by the Under Secretary, is very close to the main room and unless kept under very sanitary condition is not unlikely to be offensive. The Director of Public Instruction apparently approves the buildings and he should know better than most people the requirements of such a school. With the various modifications suggested in technical note attached there is no reason why the estimate as an estimate should not be accepted.

J. P. DAVIDSON—25-9-06.

To the Educational Department.

In the case of these estimates it has usually been the practice for the Public Works Department to obtain notes from the Chief Engineer embodying his observations on the estimates and forward them to Educational. If it is not troubling the Public Works Department too much we may ask that the practice may be continued. The technical notes of the technical section often contain a deal of matter with which Educational has no concern.

P. T. THARYAN—26-9-06.

What the note means is that the observations made by the Public Works Department should be consolidated and apart

Chief Engineer.

H. D. TAYLOR.

from the technical note. There seems no reason to trouble the Public Works

Department as the observations can be collated here.

C. G. MACKAY—27-9-06.

A | It would certainly be more convenient if the Chief Engineer could kindly arrange to furnish a separate note embodying any modifications that he may suggest in the plans and estimates. Educational have no technical knowledge, and as a result it is necessary, in order to avoid errors, to return the draft u.o. to Public Works Department for acceptance. This would not be necessary if we had a separate note. Please draft for acceptance of Public Works Department.

H. D. TAYLOR—27-9-06.

The draft placed below is submitted for approval. If approved it may be forwarded to Public Works Department for acceptance.

P. T. THARYAN—28-9-06.

C. G. MACKAY—1-10-06.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

The draft may be accepted with the pencil addition made in clause (1).

Educational's request at A *supra* has been noted.

P. K. SUBBA AIYAR—6-10-06.

In future a Chief Engineer's note might be put up in these cases, merely embodying suggestions such as made by the Secretary and the Under Secretary in this case. I will see that it is done in future.

A. G. ROMILLY—9-10-06.

The draft is accepted with the pencil addition. I regret that a Chief Engineer's note did not accompany the Technical note, but I was rather doubtful whether Educational would be prepared to accept all the modifications suggested. A Chief Engineer's note will always be supplied in future cases.

J. P. DAVIDSON—9-10-06.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

Issue.

H. D. TAYLOR—11-10-06.

[Memorandum to the Director of Public Instruction, No. 517, dated 11th October 1906.]

From the Director of Public Instruction, dated 19th December 1906, No. 5771.

A revised estimate is now submitted by the manager of the American Mission Hindu Girls' School, Chittoor, through the Director of Public Instruction with reference to the remarks made in the above memorandum. Submitted that the file may be forwarded u.o. to the Public Works Department to ascertain whether the revised estimate may be approved.

P.K.M.—22-12-06.

P. T. THARYAN—23-12-06.

C. G. MACKAY—28-12-06.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

Estimate may be approved.

A. G. ROMILLY—17-1-07.

The estimate may be approved.

F. J. WILSON—17-1-07.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

The revised estimate, amounting to Rs. 4,518, has been approved by the Public Works Department. It is now for consideration whether a grant of Rs. 1,506 or one-third of the estimated cost may be sanctioned under rule 51 of the Grant-in-Aid Code. When the amount of the grant 1906, Edition put up. has been determined, the Public Works

Department may be asked u.o. to fix a period within which the work can be completed.

P.K.M.—21-1-07.

K. RANGASWAMI AIYANGAR—21-1-07.

For orders as to the grant.

C. G. MACKAY—22-1-07.

A maximum grant of Rs. 1,500 may be made contingent on the total actual expenditure incurred amounting to Rs. 4,500 or over.

H. D. TAYLOR—23-1-07.

G. S. F[ORBES]—26-1-07.

Please draft.

H. D. TAYLOR—28-1-07.

The draft placed below is submitted for approval. Blanks in clauses (2) and (3) of paragraph 1 of the draft order will be filled in after the Public Works Department have fixed the date within which the work may be expected to be completed.

P.K.M.—29-1-07.

K. RANGASWAMI AIYANGAR—29-1-07.

C. A. SOUTER—29-1-07.

Will Public Works Department please fix a date for completion of the work. 1st April 1908 would seem reasonable.

H. D. TAYLOR—31-1-07.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

The amount of the estimate is only Rs. 4,518. 1st April 1908 will give the Mission ample time for carrying out the work and may be fixed as the date by which the building should be completed.

P. K. SUBBA AIYAR—1-2-07.

Approved.

A. G. ROMILLY—4-2-07.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

Please draft accordingly.

H. D. TAYLOR—5-2-07.

Submitted that the draft below in which the blanks have now been filled in with reference to the remarks of the Public Works Department may issue.

K. RANGASWAMI AIYANGAR—3-2-07.

Issue.

C. A. SOUTER—4-2-07.

[G.O., No. 61, Educational, dated 5th February 1907.]

CURRENT FILE.

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PAPERS PUT UP WITH CURRENT No. _____

Papers of the department to which the current belongs.

Number.	Date.	Original (=O) or spare copy (=S. C.).	Remarks. (In this column such of the papers as have been removed for copying, printing, &c., should be marked with a cross.)	Initials of Referencer with date in token of return to Reference department.

Papers of other departments.

Department.	Number.	Date.	Original (=O) or spare copy (=S. C.).	Despatcher to note the return of the papers to the departments concerned.

Stock Form No. 135
3,700-17-6-06.

1
CURRENT No. 14 11

EDUCATIONAL DEPARTMENT.



190 , Registered 27-8-1906

Subject.

Recommending that a Grant-in-aid of Rs. 1,350 may be sanctioned towards the cost of constructing a building for the American Mission Hindu Girls' School at Chittoor.

ENCLOSURES.

No. 2

Spare copies

Ref on cur. No. 5771/06

Station Madras, Dated the 20th August 1906.

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

(Designation) Director of Public Instruction.

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

Sd,

I have the honour to submit the enclosed plan with estimate amounting to Rs. 4,050 for the construction of a building for the Hindu Girls' School at Chittoor managed by the American Mission, and to recommend that a grant of Rs. 1,350 may be sanctioned under Rule 51 of the Grant-in-aid Code, to be paid before the close of the current official year.

2. The school is attended by about 100 pupils, and is intended to serve as a model school in connection with the A.M. Training School for Mistresses as well as to provide for ordinary female education in Chittoor. It is now held in a rented building inconveniently situated and with insanitary surroundings.

The

C. No.1411, from the Director of Public Instruction, No.5771, dated 20-8-06.

MEMORANDUM:--

The Director of Public Instruction is informed that the plan and estimate for the construction of a building for the American Mission Hindu Girls' School at Chittoor submitted with his letter No.5771 of the 20th August 1906 ^{appeal} to require revision with reference to the following remarks. He ~~thereupon~~ accordingly requested ^{to ask} the Manager of the School to ^{revise} ~~submit~~ and resubmit them ^{as soon as possible}.

(1) A foundation of $4\frac{1}{2}$ feet is provided in the estimate but $3\frac{1}{2}$ feet will be enough, ^{2 1/2' concrete and the remainder brick as per plan}

(2) The rates specified below are in excess of those entered in the schedule of the Public Works Department --

	Estimate.			P.W.D. schedule.		
	Rs.	A.	P.	Rs.	A.	P.
Concrete in mortar	10	0	0	8	0	0
Brick in mortar	16	0	0	15	0	0
Archwork in mortar	17	0	0	16	0	0
Teak batten windows	1	2	0	0	14	0
Flooring with country tiles over 3" concrete	8	0	0	7	3	0

Either the rates in the estimate should be reduced or a data statement furnished.

(3) Girders 15" x 5" x 42 lbs. are more suitable than 14" x 6" x 57 lbs. for both the large and the small room.

(4) The upper ends of the rafters should not be let into the walls: they should be nailed on to wall purlins

The building is unsuitable for educational purposes.

4. Out of the allotment for building grant in the current year's allotment payment of Rs. 8,400 has been authorized up to date.

I have the honour to be,

Sir,

Your most obedient servant,

E. W. Middlemast

For Director of Public Instruction.

K.P.D.

Despatched with plans & estimates to be returned. 12/10/06

Together with any observation that may have to offer

5/11/06

2. 4 11 38

supported on corbel stones.

(5) The lower room has the minimum admissible height of 12 feet. As this will make the room insufferably hot if at all crowded it is desirable that at least another 3 feet should be added to the height. If this is not done ventilating windows should be provided at the top protected by weather boards to keep out the sun.

(6) The upstairs room has only 6 feet walls and this room also would be ~~unpleasantly~~ ^{unpleasantly} ~~unpleasantly~~ ^{unpleasantly} and hot.

(7) The stair case is badly placed and fills up one room to a considerable extent.

(8) The 6 feet verandah provided for is of very little use.

(9) The continuous dead wall on one side of the building which appears from the drawings to be ~~provided~~ ^{needed} will exclude both light and air and should be provided with suitable openings.

(10) The latrine is too close to the main room and is likely to prove very offensive.

28/12/16

1-10.26

Stock Form No. 135
8,700-17-6-06.

Received



190 , Registered 20.12.1906.

Subject.

Resubmitting with remarks Plan & estimate
for the construction of a building for the
American Mission Hindu girls' School,
Chittoor.

ENCLOSURES.

No.

Plan &
estimate.

Spate copies

Ref. ou. C No. 5771 of 06

Station

Madras

Dated the 19th December 1906.

From (Name) The Hon'ble Mr. T. T. Logan, B.A.,

(Designation) Secy Director of Public Instruction

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

Su,

No. 294.

From

Rev. J. A. Feathe M. A.,
Manager,

A. M. Hindu Girls' School,

CHITTOOR.

To

The Director of Public Instruction,

MADRAS.

Sir,

With reference to your C. No. 5771 of 1906, dated 23rd October, I put the plan and estimate for said school in the hands of P. Hawkins Esq, Executive Engineer of North Arcot District. He has retraced the plan and re-written the estimates including the corrections that were possible. The ten paragraphs of remarks in your letter of October 23rd have been carefully considered by him with the following result:--

1. The depth of the foundation cannot be reduced with safety to the building "as the white Morrum so called contains decayed felspar which is unsound when wet".

2. The rates entered in ^{the} new estimate are those of the P.W.D. including cartage charges.

3. The girders are those usually used by P.W.D.

4. Changed as per your remark.

5. Lower walls have been raised 3 feet.

6. Upper walls have been raised 4 feet.

7. We have not been able to change the stair case. We cannot

7
58
14
cannot put it outside owing to the next building. Besides, the space under the stair case will not be lost as it is to be built in and used for a necessary store-room.

8. We cannot enlarge Verandah owing to space limitations. It is simply a cover for downstairs and upstairs entrances.

9. Ventilators have been put in the dead wall though they will not all be of the usual value owing to nearness of next building.

10. The limits of the lot prevent us putting the latrine further away, but it has ^{been} ~~been~~ exposure and will be kept in a sanitary condition. The rear wall of the school ^{has} ~~has~~ purposely been kept blank to avoid offensiveness.

The annotated plan and estimates as well as the revised plan and estimates, which were made for sake of clearness, are herewith submitted, under book-post cover.

I have the honour to ask that they may be finally approved and returned at an early date.

I have the honour to be,

S i r,

Your obedient servant,

29th November 1906

C h i t t o o r.

/Sd/ James A. Beathe,

Manager.

Submitted to the Secretary to Government, Educational Department with reference to Memorandum No. 517 Educational, dated 11th October 1906.

Ernest Lumsden

For Director of Public Instruction.

68.
18-12-06.
M.S.S.

Handwritten notes at top of left page.

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[L. & M.]
16

Educational
LOCAL AND MUNICIPAL DEPARTMENT

T's No: 495
06 & also *No: 6*
07.

15

NOTE FILE.

P.W. R.O. R.

No: 1068
1-9-06

Cesti: for constg. an American
Mission Hindu girls' School
at Chittoor in N. Arcot Dist - Cesti: 1005

Handwritten note at bottom of left page.

1,000-29-5-06.

C. No. 1411 From the

D. P. I.

No. 5771, dated

20-6-1906.

SUBJECT.

Grant-in-Aid for the A. M. Hindu Girls' School, Chittoor.

The D. P. I. submits a plan and an estimate amounting to Rs 4050 for the construction of a building for the ^(American Mission) Hindu Girls' School at Chittoor and recommends that a grant of Rs 1,300 ^(or one-third of the cost) may be sanctioned under Rule 51 of the Grant-in-Aid Code, to be paid before the close of the ^(under Rule 51 one-third is the maximum amount payable) current official year. The School is attended by about 100 pupils. It is now held in a rented building inconveniently situated and with insanitary surroundings. Before a decision is arrived at regarding the amount to be promised, it is submitted that the plan & the estimate may be forwarded to the P. W. D. for the usual scrutiny.

Plan first check with
reference to the provision of
Rule 51.

29.8.06

Submitted that we have no information as to the

[Faint, mostly illegible handwritten text, likely bleed-through from the reverse side of the page.]

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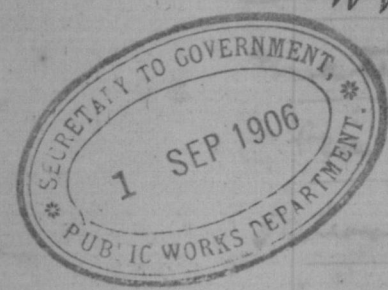
30 2

28

number of pupils in each class. nor as to the number of pupils who will be using each class room. The Director and the Inspecting Officers will satisfy themselves ~~about this~~ about this before actually disbursing the grant.

Handwritten date: 29/8/06

Handwritten word: Secy.



Handwritten note: Perhaps we may send to P.W.D.

Handwritten calculations: 30-8.06, 1409, 34.20

Handwritten calculations: 31/8/6, 610.8, 1.9.06

Handwritten calculations: P.W.D. No 1068, 1.9.06

Handwritten note: 1 pencil sketch

Handwritten calculations: 7.9.06

Handwritten word: TO

Handwritten letter: T

Handwritten phrase: For Scrutiny

Handwritten calculations: PV, 3.9.06

Handwritten calculations: 31/9/06, SW

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Public Works Department.

NOTE BY TECHNICAL SECTION.

Current No. 40 1068 from The Educational Department
re 40618D of 19.06

Names of Officers.

Plan terminate are prepared
by an Eng^r Subordinate
Student.

Name of Work Constructing a Hindu
Girls School at Chittoor
North Arcot District.

Amount of Estimate, Rs. 4050

PARTICULARS OF ESTIMATE.

Main Building Rs. 4036

Subsidiary Buildings {

Lightning Conductor "

Land Compensation "

Contingencies " 14

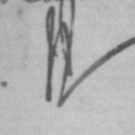
Petty Supervision " -

Total Rupees ... 4050

PARTICULARS OF CONSTRUCTION.

Surface soil Alluvial down to 3ft

Sub-soil White Maram
vide note on plan.

no necessity to dig into the masonry Foundations 4 1/2 ft deep of which
3' 6" will be enough.
2 1/2' concrete remainder
brick. yes 
The lower 3 1/2 ft will be concrete
of broken stone in chumam &
the remainder brick in chumam

Basement 2 ft high of brick in
chumam.

Walls— will be raised to the heights marked on the plan with brick in chunam. Arch work on doors & windows will be built with the same materials.

Roof Timbers— *Junle wood - turned rafters*
Roofing— *Still beams & plates for 12 ft. Flat and painted.*

Flooring— *Country tiles over 3" concrete.*

The size of the bricks not stated - of pointed cement should be used.

Plastering— *Inside and outside 2 coats*

Pointing—

Doors and Windows— *Scott wood 8 paneled*

Painting and wood-oiling— *Doors, windows and stair case 2 coats and wood oiling the roof timbers 2 coats.*

Scantlings— *Vide calculations*

Rates— *Vide remarks.*

The plinth area of the main building is _____ square feet and the cost per square foot will be Rs. _____

The plans and estimates have been counter-

signed by the *Director of Public Instruction* and *approved in the Educational Dept.*

REMARKS.

At present the school is held in a rented building | *P.I.C.F.*

inconveniently situated and with unsanitary surroundings. The building is unsuitable for Educational purposes.

The following accommodation is provided.

Ground Floor

1. Room. — 37'-6" x 20'-0"

1. Do - Contain-
-ing the stair case } 20'-0" x 16'-0"

1 Verandah at end - 6 ft wide.

Open latrine attached at the other end — 24'-6" x 9'-0"
1st Floor

1. Room — 37'-10 1/2" x 20'-4 1/2"

1. Do. with stair case — 20'-4 1/2" x 16'-4 1/2"
Rats -

The following rates are in excess of those in the Schedule.

data ref.

** is for 8" Splinches on 4" concrete finished with asphalt*

In Estimate
Concrete in mortar - 10-0-0 - 8-0-0

Brick in - do - 16-0-0 - 15-0-0

Arch work - do - 17-0-0 - 16-0-0

Iron battens Windows - 1-2-0 - 0-14-0

Flooring with Country tiles over 3" concrete } 8-0-0 - 7-8-0
In Schedule

Calculation 8.

Ground floor. Large room
 Joists - unsupported length = $\frac{37.5}{5}$
 = $7\frac{1}{2}$ ft. Jangle wood

Load = $7\frac{1}{2} \times 1\frac{1}{2} \times 150 = 1687$

$bd^3 = \frac{WL^2}{140} = \frac{1687 \times (7\frac{1}{2})^2}{140} = 678$

Make Section 3×6

Or estimate 3×6

Joists in small room.

Load = $8 \times 1\frac{1}{2} \times 150 = 1800$

$bd^3 = \frac{WL^2}{140} = \frac{1800 \times 8^2}{140} = 823$

Make Section $3 \times 6\frac{1}{2}$

Or estimate 3×6

Solid steel girders. Large room

Load = $20 \times 7\frac{1}{2} \times 150 = 22500$

Joists = $14 \times 7\frac{1}{2} \times \frac{1}{2} \times 2 \times 150 = 630$

approx. weight of girders = 840

Steel lbs 23970

or tons 10.70

Distributed load in tons that 1 ft

of span will carry = 10.70×20

= 214. With coeff = $\frac{1}{5}$. C.I.C

of Dorman Long Co's Handbook

a girder $15 \times 5 \times 42$ lbs is the most

suitable against $14 \times 6 \times 57$ lbs

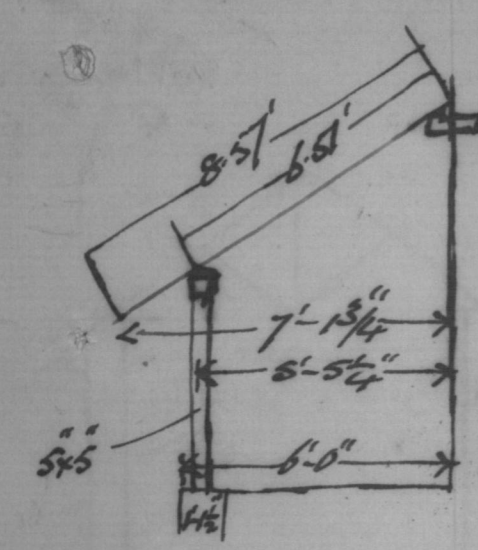
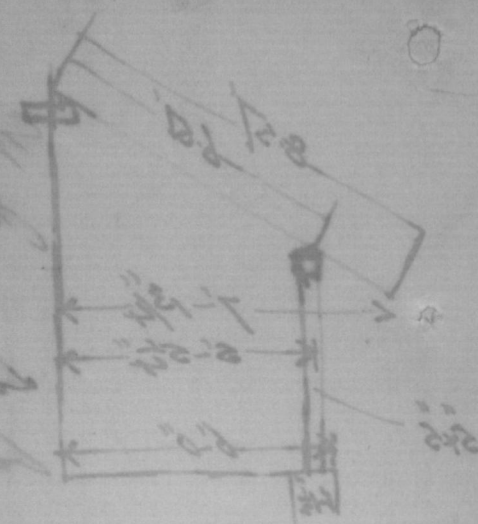
provided in the estimate. A

similar girder is found to be

suitable for the small room also.

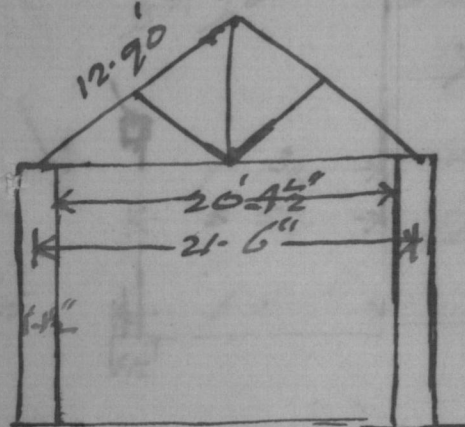
yes.

yes.



Quandah - flat and
pan tile roof.
Rafters - 12 ft Centre.
Load = $6.57 \times 12 \times 30 = 293$
 $W^3 = \frac{WL^2}{140} = \frac{293 \times (6.57)^2}{140} = 86$
Make Section $2 \times 3 \frac{1}{2}$
Inch with 2×4
Purlins - unsupported
Length = 7'-10" nearly
Load = $7 \frac{5}{8} \times 5.31 \times 30 = 1248$
Rafters = $6 \times 5.31 \times \frac{1}{6} \times \frac{7}{24} \times 46 = 74$
Stress 1312
 $W^3 = \frac{WL^2}{140} = \frac{1312 \times (7 \frac{5}{8})^2}{140} = 574$
Make Section $4 \times 5 \frac{1}{4}$
Inch with 5×6
Wall purlins - on Corbel Stones $5 \frac{3}{8}$
ft Centre.
Load = $5 \frac{3}{8} \times 3 \frac{1}{4} \times 30 = 524$
Rafters = $4 \times 3 \frac{1}{4} \times \frac{1}{6} \times \frac{7}{24} \times 46 = 46$
Stress 570
 $W^3 = \frac{WL^2}{140} = \frac{570 \times (5 \frac{3}{8})^2}{140} = 117$
Make Section $3 \times 3 \frac{1}{2}$
The upper ends of the
rafters should not be let into the
walls - they should be nailed
onto wall purlins supported
on Corbel Stones.

vis. moved
always done
Ys. H.
25th.



12 floor roof Large room

Flat and painted 1/3 Pick

Weight = 54 lbs per sq foot

Common rafters 1 1/2 ft Center

Load = $6.45 \times 1/2 \times 54 = 522$

$bd^3 = \frac{WL^2}{140} = \frac{522 \times (6.45)^2}{140} = 155$

✓ Make Section 2 1/2 x 4

Indeterminate 2 x 4

Purlins. Unsupported length = 7.57 ft

Load = $7.57 \times 6.45 \times 54 = 2636$

rafters = $6 \times 6.45 \times \frac{5}{12} \times \frac{1}{3} \times 46 = 129$

Stalls = 2765

$bd^3 = \frac{WL^2}{140} = \frac{2765 \times (7.57)^2}{140} = 1132$

✓ Make Section 5 x 6

Indeterminate 5 x 7

Principal rafters.

Load on purlin - - - 2765

purlin = $7.57 \times \frac{5}{12} \times \frac{1}{3} \times 46 = 74$

Stalls 2839

$bd^3 = \frac{WL^2}{140} = \frac{2839 \times (6.45)^2}{140} = 844$

✓ Make Section 4 x 6

Indeterminate 4 x 6 1/2

Sub tie beam - 4 x 6 1/2

Indeterminate - 4 x 7 1/2

Purlins in Small room.

Unsupported length = 8.18 ft.

Load = $8.18 \times 6.45 \times 54 = 2849$

rafters = $6 \times 6.45 \times \frac{5}{12} \times \frac{1}{3} \times 46 = 129$

Stalls 2978

B. w. - 2478

Moke Section $5 \times 6 \frac{1}{2}$

Measure 5' x 7'

Printed paper may be used
at for large room-

12.
21.9.06

38

If this is to serve as a model for pub-
lic schools I think there is room for im-
provement. The staircase might be better
placed. As it is it spoils two fairly good
rooms. The provision of a latrine actually
abutting on the building is most objection-
able.

However - Educational been satisfied,
but in any case I would know the
latrine -

Be

24/5/56

The lower room has the minimum
admissible height 12ft - it will, if at
all crowded, be I should say a sufficient
hot, as there is no escape for the heated
air - Personally I should like at least
another 3ft added to the height of this

✓
 ✕ Room - if left as it is, it should have
 ventilating windows at the top protected
 by weather boards (check at the sun -
 The upstairs room has only 6th wall;
 consequently the average height of roof
 here is even less than in the lower room.
 ✓
 ✕ and this room ought also the precious
 that stuffy shot - but it is said as to
 number of pupils to occupy the various
 rooms, so it is not possible to discuss the
 accommodation. The stair case is badly
 ✕
 placed, splits up one room to a considerable
 extent - The 6th verandah ~~is~~ ^{is of} very little
 ✕
 use - judging from the drawings there is
 to be a continuous dead wall on one
 ✕
 side of the building, excluding both light
 and air - The latrine as located in the
 under building is very close to the main
 room & unless kept under very sanitary condi-
 ✕
 tions is not unlikely to be offensive -
 The D.P.I. apparently approves the building
 she should know better than to trouble
 the requirements of such a school - with
 the various modifications suggested in
 Technical note attached. ^{There is no}
 reason why the building ^{as arranged} should not
 be accepted -

W.H. 2 Educational A.O.

25/8/06

Technical Section
 need plan and estimate with
 fact. Chief Engineer to obtain
 estimates of engineering in
 forward them to Educational. If it is not
 to much we may ask that the practice may be continued.
 The technical notes of the technical section often contain
 a deal of matter with which Educational has no concern.

Chief Engineer
 The observations made by the P.W.D.
 should be consolidated & apart
 from the technical notes. There seems
 no reason to trouble the P.W.D. as
 the observations can be collected here.

It would certainly be more convenient if
 the Chief Eng. could kindly arrange
 to furnish a separate note embodying
 any modifications that he may suggest
 in the plans & estimates. Ed. Lane
 no technical knowledge, and as a result
 it is necessary, in order to avoid
 errors, to return the draft to
 the P.W.D. for acceptance. This would not
 be necessary if we had a separate note.
 Please draft for acceptance of P.W.D. W.S.

In the case of these estimates it has usually been
 the practice for the P.W.D. to obtain notes from the Chief
 Engineer & embodying his observations on the estimates &
 forward them to Educational. If it is not troubling the P.W.D.
 too much we may ask that the practice may be continued.
 The technical notes of the technical section often contain
 a deal of matter with which Educational has no concern.

26/9/06

Sey.

What this note means is that

the observations made by the P.W.D.
 should be consolidated & apart
 from the technical notes. There seems
 no reason to trouble the P.W.D. as
 the observations can be collected here.

27/9/06

A | It would certainly be more convenient if
 the Chief Eng. could kindly arrange
 to furnish a separate note embodying
 any modifications that he may suggest
 in the plans & estimates. Ed. Lane
 no technical knowledge, and as a result
 it is necessary, in order to avoid
 errors, to return the draft to
 the P.W.D. for acceptance. This would not
 be necessary if we had a separate note.
 Please draft for acceptance of P.W.D. W.S.

Copy taken and sent down to mattress for note by all concerned.

Feb
10.0.8

W.C. across those
are from 11 at least
to the house in
sent to CIT
(S) T for note
9-10-7

MS. 607..

Educational no. 200
 2000 2000
 11-0000

[Faint handwritten text, possibly a header or title]

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Page 3-4 of
Page 5-7 of

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13. W

7 P

Page 3-4 of [Memo to the D.P. I no. 577 d/ 11.10.06.]
Page 5-7 of. From the D.P. I. no. 5771 d/ 19.12.06.

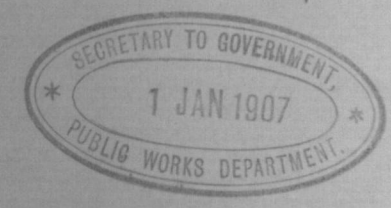
A revised estimate is now submitted by the Manager of the A. G. H. Trade Guls' School, Chittoor, through the D.P. I with reference to the remarks made in the above memo. Submitted that the file may be forwarded up to the P. W. D. to ascertain whether the revised estimate may be approved.

Uo Duo 936
31-12-06.
29/12/06

Pro.
22/12/06
23/12/06

Ch.
28/12/06

P.W.D. no.



P.W. no R.N. 1
2.1.07

[Signature]
2/1/07

DR

Current No 45701 from The Educational Department
NO NO 936 D of 31.12.06

Names of Officers. Estimate prepared by P. Hankins
Esq. Es. Eng. N. Brest
for the Manager —

Name of Work

Constructing a
Hindu Girls School at Chittoor
in the North Arcot District.

Revised
 Amount of Estimate Rs. 4518

P.6. C.F.

P.3. C.F.

The Manager
 submits the above esti-
 -mate with the following
 remarks with reference to
 Memo No 517 of 11.10.06

1. That the foundations
 cannot be reduced in depth
 with safety to the building
 as the so called white morran
 contains decayed field spar
 which is unbound when
 wet.

2. The rates referent
 to mixed cast line.

3. The guiding are
 those usually used by
 the P.W.D. Guide 15x5x4 1/2
 lbs were recommended in -
 -Spec of 14.6x5 lbs. These
 are ^{sufficiently} strong and
 cheaper.

4. The alteration
 ordered has been adopted
 5 and 6. The ground floor
 & 1st floor walls have been
 now raised 3 and 4 feet

Hand

15 43

respectively.

7

7. The San Can room cannot be altered - it will be built in and used as a store room.

8. The hand of Can. - not be altered owing to limitation of space.

9. Ventilators are provided in the dead wall but they will not be of much value owing to the nearness of the next building.

10. Limited space prevents the latrine being put further away, but it is open & exposed to the sun and will be kept in a sanitary condition.

The amount of the estimate, as now revised, is increased from Rs 4050 to Rs 4518.

Rd.
16.1.07

8P

W
Est may be approved
27/1/07



The Est. may be approved
Edw. W. 27/1/07

Next

16. W

30 98

Educational Department

The revised estimate amounting to Rs 4,518 has been approved by the P.W.D. It is now for consideration whether a grant of Rs 1506. or ~~Rs 1500~~ one third of the estimated cost may be sanctioned under Rule 51 of the Grant-in-Aid Code. When the amount of the grant has been determined, the P.W.D may be asked to fix a period within which the work can be completed.

1906 revision, perhaps.

For
21.1.07.
RM
21.1.07

Sy. For order as to the grant.
22.1.07

A maximum grant of Rs 1500 may be made contingent on the total actual expenditure incurred amounting to Rs 4500 or over.

LM

23.1.07

GFT
16/1

Mean draft
20.1.07

RM
20/1/07

P.T.O.

The draft placed below is submitted for approval. Blanks in clauses 2 & 3 of para 1 of the draft, ^{order will} ~~can~~ be filled in ~~any~~ after the P.W.D have fixed the ^{date} ~~period~~ within which the work ~~may be~~ ^{expected to} be completed.

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Send

17 W5

108

The draft placed below is submitted for approval. Blanks in clauses 2 & 3 of para 1 of the draft, ^{order will} ~~can~~ be filled in ~~any~~ after the P.W.D have fixed the ^{date} ~~period~~ within which the work ~~may be~~ ^{expected to} be completed.

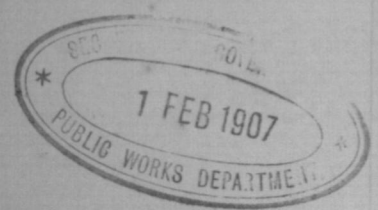
P.W.D.
29/1/07

See
28/1/07

AD
29.1.07

Will P.W.D please fix a date for completion of the work - 1st April 1908 would seem reasonable

Dep
31/1/07



No 2090-122
31-1-07

P.W.D.

✓
31.1.07 P.W.D

P.W.W.O. R No 138
1.2.07

The amount of the estimate is only Rs 4518. 1st April 1908 will give the mission ample time for carrying out the work and may be fixed as the date by which the building should be completed.

P.W.D.
1.2.07

appd
22/1/07



educational u.o.

Plan Refd
22/1/07

DR
1.2.07

Submitted that the draft below in which the blanks have now been filled in with reference to the

the staff of the ...
 as ... in ...
 3 of ...
 in ...
 ...

See
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to be

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Read

the remarks of the P.W.D. on page 17, may issue.

200
 3-2-07

See issue
 4-2-07

(some letters dated 15/2/07)

X

[12]
1000-2-3-06

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

READ ALSO:-

C. No. 1411, From the D. P. J., No. 577, dated 20.1. 1906.
" " 2090, " " D. P. J., " 20, " 19.12. 1906.
" " " " " " " " ~~17~~ ~~1907~~.

ORDER.

No. 61, dated 5-2- 1907.

J.S.

The Government are pleased to sanction a maximum grant of Rs 1500 towards the cost of constructing a building for the American Mission Hindu Girls' School at Chittoor, subject to the following conditions:-
(1) that the work is carried out in accordance with the estimate as now revised;
(2) that the work is completed before the 1st April 1908.
(3) that a certificate of the

* Date to be filled in after it has been
forwarded to the P.W.D.
J.S.

2000

Date of the bill of lading
Date of the bill of lading

2

the Actual expenditure incurred on the work is submitted before the 1st June 1908.

(4) That the amount expended on the work does not fall short of Rs 4500 as actually verified;

(5) 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 as funds become available.

Rs	Chs
29/1/07	30/1/07
29/1/07	31/1/07

20.

Mr. S. B. I. with plan and estimate.
Accountant General
Sd/-
20.2.07

at copy sent to Press.

turned for signature.

spatched in print.

AGAIN G.O., No.
190

DATE

NUMBER OF COPIES
REQUIRED

Order complete.

Letter only.

Order complete with Letter.

40 Copies

REMIT No.

1411-A

memo 517-A

2090-A

Prof please
18

5/2/19

ENCLOSURES TO G. No.

all except plans & exhibits

8 P
mt 1-11 P

ORDER OF GOVERNMENT

LETTER TO GOVERNMENT

STATEMENT WITH DITTO

PAPER NOT FILLED IN, BEING MEANT FOR DE-PAYOR
IN ORIGINAL

N.B.

A = Print in full.
B = Not to be printed.
C = Print abstract only.
D = Print heading only.