~~RTE 1135/51/11~~

[illegible]

EDU

RTE

120

1-03-05

20

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[P. T. O. FOR PUT UP PAPERS.

[illegible]	[illegible]	S.C.		
597	27.9-04	S.c.		
304	17-5-04	do.		
589	21-9-04	do.		
624	15-12-03	O.		
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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.
Fin	849	12-12-03	S-C	

Public Instruction,

[Station] Madras.

SECRETARY TO GOVERNMENT, LOCAL & MUNICIPAL DEPARTMENT
12 OCT 1904

Ref. on Cur No. 1790 of 04 — Received 12-10 1904.

Dated 7th October 190.4

Enclosures Plans and estimates — Registered 12-10 1904

SUBJECT.

Submitting for the favourable consideration of Government an application for aid towards the cost of constructing a building for the Basel German Mission High School, Calicut.

BACK PAPERS.

FURTHER PAPERS.

Sir,

I have the honour to submit, for the favourable consideration of Government, the enclosed application for aid towards the cost of constructing a building as per plans and estimates which are herewith submitted for the use of the Basel German Mission High School, Calicut.

2. The necessity for the proposed building is explained by the Manager as follows:

"The strength has been steadily growing for the last several years and the present building has become quite insufficient. The building was extended in 1899 by the addition of three rooms. But the relief was only temporary. Since the present building does not allow of further extension it has been decided to erect a new building. When the new building is ready for occupation the present building will be handed over to the B.G.M. Girls' High School which is now being held in a temporary building and which will therefore be in no need of a new building".

Since 1899 the strength of the school excluding the Primary department has increased by more than 30 per cent, a fact which shows that the school is growing in popularity year after year. It is the only High School in Calicut which is open to Thiers and other depressed classes; and its general condition is satisfactory.

Form	Strength on the 31st March 1899	1903
VI	27	43
V	22	42
IV	44	59
III	40	46
II	50	49
I	77	103
Total	260	342

---

4. The building to be erected appears to me to be a little too costly for a high school, but it is the intention of the Managers to raise it to a college in the near future, and hence the elaborateness of the structure which, so far as I can see, seems eminently suitable for educational purposes.

4

5. According to the usual procedure hitherto in force the plans and estimates were forwarded to the Superintending Engineer of the Circle for remarks, but under G.O. No. 597 dated 27th September 1904 since received, no further steps have been taken to see that the revised plans and estimates are accepted by the Manager. A copy of the letter of the Superintending Engineer however is sent herewith for information. S.

6. As the building is intended to accommodate both the upper secondary and lower secondary departments the maximum grant due from provincial funds is $\frac{1}{6}$ of the proposed expenditure. 2

7. Out of the allotment for building grant in the current year's budget estimate payment of Rs 2332/ has been authorized up to date.

I have the honour to be,
Sir,
Your most obedient servant,

A. G. Bourne
Director of Public Instruction.

7-10-04

mend that the width of concrete under all main walls be increased to 3 feet and that the concrete of the foundation should be laterite in surki mortar.

2. The designs are made to a very small scale and without dimensions, and scrutiny is thus difficult and as regards many details impossible. With the exceptions above noted I however approve generally of the plans and sections with the exceptions of details of roofs.

3. With regard to these latter I cannot approve of the designs of tresses shown in plans Nos. 7 and 8 or the other tresses shown on sections appearing on other drawings while the arrangements are not impossible and might well stand for many years they are unusual and do not follow the types which experience has proved best suited. The tresses of 36 feet span if of wood should be of the "Queen Post Tress". Type with 2 purlins on each side. If of iron the tress should also have 2 purlins and the type to be followed might be those shown in Messrs. Richardson and Cruddas price list Fig. 106 108 or 109. Tresses for spans under 14 feet are considered unnecessary ordinary coupled rafters being most suitable for such cases. For spans 16 feet and upwards to 22 feet the King Tress Type is recommended with one purlin.

not available

4. I would suggest that permission might be given to start building but with the proviso that roofing should be revised to make it in accordance with usual practice. It is to be noted that many tresses are shown as coming over doors in the 36 feet span room. This is objectionable if it can be avoided and in this building it appears that this can be done.

5. I cannot approve of the design of latrine as the Ventilating shaft is only designed according to my computation to resist a wind pressure of 25 lbs per square foot and for safety at least 60 lbs per square foot should be provided for.

The arrangements of the latrine contemplate the removal of all noxious smells and vapours through this shaft and if the shaft were safe I would not otherwise object although I have never seen this type of latrine. One iron chimney on the top of the square pedestal and well stayed would suit but would corrode soon.

6. The buildings may be expected to take 2 years to erect.

/True Copy/

A. G. Bowers

Director of Public Instruction.

V.l.

ndorsement No. 5663 C.W/6-12-

Letter from the Director of Public Instruction. No 1790 d/7.10.0

Referred to the Superintending Engineer, IV Circle, who is requested to be so good as to obtain and furnish full particulars regarding the trusses etca. In the absence of these particulars it is difficult to scrutinise the proposals.

P.K.S (By order)

2.12.04
D.E.W.

To
The S. E. Fourth Circle,
with papers in original
to be returned

DESPATCHED
-6 DEC 1904

From

[Name] C. H. B. Burlton Esq

[Designation] Superintending Engineer IV Circle

[Station] Coimbatore

No. 94 W

Dated 30th January 1905.

Enclosures { Plans 9, Others 3 } Total. 12

Spare copies

Received 1. 2. 1905.

Registered 190 .

Passed on, by—

Registering Clerk 2. 2. 1905.

U. R. Clerk 2. 2. 1905.

Referencer 4. 2. ~~1905~~.

Record Supdt. 190 .

Drafting Officer 190 .

SUBJECT.

Basel German Mission High School Calicut—

Forwards Calculation sheets for certain wood & Iron works for ——.

1 FEB 1905
PUBLIC WORKS DEPARTMENT

BACK PAPERS.

5663 of 6 months

FURTHER PAPERS.

Flag 15

Sir,

With reference to your endorsement No. 5663 C dated the 6th December 1904, I have the honour to enclose herewith detail calculations for wooden king post, and queen post trusses for 22 feet, and 36 feet spans respectively.

2. As regards iron trusses for 36 feet span I enclose a blue print plan No. 26486 from Messrs. Richardson and Cruddas, Bombay as also their quotations for supplying the iron materials They have calculated the trusses, 10 feet apart, on a total dead load of 25 lbs. per sft. in addition to wind pressure normal to the roof at 30 lbs. per sft. against 42 lbs given in the Military works hand book.

3. The distance from centre to centre of shoes should be 37'-6" and not 38 feet as given on the blue plan.

4. On inspection of the site last month I decided that the concrete portion of the foundations should be increased as shewn in pencil on plan 1. The unshaded portions represent -- masonry.

5. The enclosures received with your reference under -- reply are herewith returned.

I have the honour to be,

Sir,

Your most obedient servant,

G. Subrahmanya Aiyar

Manager

Office of the Superintending Engineer, IV Circle.

30-1-05

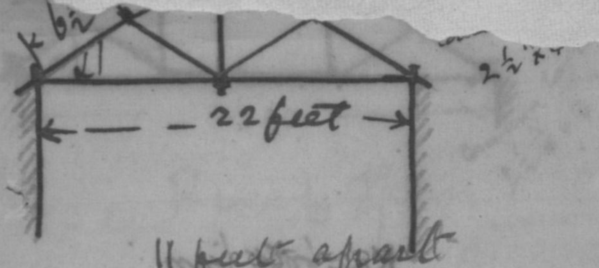
Enclo: 12.

1. File os estimates, 37 sheets.
8. Plans.
1. Calculation sheet.
1. Blue plan No. 26486
1. Company's quotations

12.

Company

3/2/05



Trial piece x

$x^2 =$ ~~[illegible]~~ $13^2 - 11^2 = 48$ ✓

or $x = 6.92$ ✓

Proportion of rise to span $= \frac{6.92}{22} = 0.314$

$\sin \alpha = \frac{6.92}{13} = 0.54$

$\therefore \alpha = 33°$

Weight of roof covering normal to slope

$= 18 \cos 33° = 18 \times .83867 = 15.09$ lbs per sq. ft

Wind pressure $= 60 \times 0.7 = 42$ ✓

∴ Total weight per sq. ft = 57.09 " "

* Vide Military works hand book page 98.

Pl. Rafter

$P = \frac{13}{16} W \operatorname{cosec} 33° = \frac{13}{16} W \times 1.8361$

$= 1.47953W$ ✓

W = weight of roof actual = 18 ✓

+ wind pressure normal = 42 ✓

60

∴ $W = 11 \times 13 \times 60 = 8580$

plus weight of common rafters and purlins = 222 lbs ✓

Common rafters $= 6 \times 13' \times 2\frac{1}{2}'' \times 4'' \times 41 =$ ✓

Purlins .. $= 1 \times 11' \times 5.25'' \times 8.5'' \times 41 =$ ✓

∴ log wt. of purlin = log 11 + log 5.25 + log 8.5 + log 41 − log 12 − log 12

1.04139
0.72016
0.92942
1.61278

4.30375 − 2.08278 = 2.22087 ∴ w = 167 lbs. ✓

389 ✓

be 11 feet apart. Timber Teak. Roof covering to be Mangalore tiles as per sketch No. 1 ~~being the accompaniment~~ accompanied the Chief Engineer's ~~to the~~ circular No. 3076 C dated 3rd July 1901. Rise 1/3 of span (= 34°).

– Pressure per sft. of the roof –

Weight of mangalore tiles the with flat tiles } 15 ✓

Battens 3

18

Wind Pressure normal to roof sloping 2/3 } 42 * ✓

60 lb ✓

$P = \frac{13}{16} W \operatorname{Cosec} 34°$

$W = 11 \times 13 \times 60 = 8580$ lb ✓

$P = 8580 \times 1.8 \times \frac{13}{16} = 12870$ lb ✓

$S = \frac{2P}{c} = \frac{2 \times 12870}{1210} = 22$ ✓

$= 4'' \times 5\frac{1}{2}''$ ✓

∴ W = 8580 + 389 ✓

= 8969 lbs. ✓

P = 1.4755 W = 1.4753 × 8969 ✓

∴ ~~[illegible]~~ P = 13,268 lbs

$S = \frac{2 \times 13{,}268}{1210} = 22$ sq: inches nearly

∴ 4" × 5½" will do –

Straps

Abstract of scantlings

Pl Rafters	$4'' \times 5\frac{1}{2}''$ ✓
Tie Beam	$4'' \times 5\frac{1}{2}''$ ✓
struts	$4'' \times 4''$ ✓
Straps at foot of Pl rafters	$1\frac{1}{2}'' \times \frac{3}{8}''$
Bolts ~~do~~ do	$1\frac{1}{2}''$ diameter
King Bolt	$1''$ diameter

Kingbolt truss

Common rafters. (taken at 1.75′ apart)

$W = 6.5 \times 1.75 \times 57.09 = 649.359$ ✓ or say 650 lbs

Deflection formula $= bd^3 = \frac{WL^2}{175}$ for teak

$= \frac{650 \times 6.5^2}{175}$

$\therefore \log bd^3 = \log 650 + 2\log 6.5 - \log 175$

$= 2.81291 + 1.62582 - 2.24304 = 157$

This will suit a scantling of $2\frac{1}{2}'' \times 4''$ vide page 104 Military works handbook (Third edition)

Purlins

$W = 11 \times 6.5 \times 57.09 = 4082$ lbs

Deflection formula. $\frac{WL^2}{175} = \frac{4082 \times 122}{175}$ ✓

$= 2825$

which will suit a scantling $5\frac{1}{4}'' \times 8\frac{1}{2}''$ which corresponds to a weight of 2940 lbs.

Cursory 29/05

~~For Tiffin~~ 12 ft

Weight on rafter $= 7 \times 2 \times 60$ lb

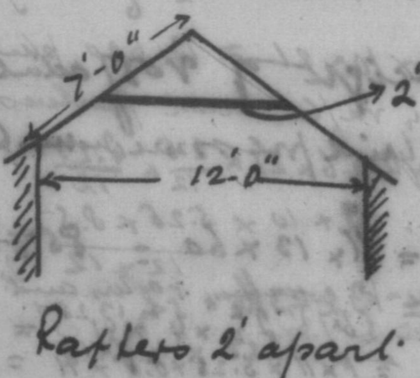
$= 840$ lb $= W$

$\frac{WL^2}{125} = bd^3$

$= \frac{840 \times 7^2}{125} = bd^3$

$= 235 = bd^3$

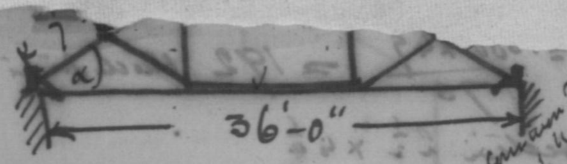
$b = 3''$; d ~~$= 4\frac{1}{2}''$~~ $4\frac{1}{4}''$



Rafters 2′ apart.

Rise $\frac{1}{3}$ Span

Pl
II D 20-12-04



Rise $\frac{1}{3}$ Span

Find the rise, x

$x^2 = 21^2 - 18^2 = 441 - 324 = 117$ ✓

$\therefore x = 10.816$ ✓

$\therefore$ Proportion of rise to span is $\frac{10.816}{36}$ ✓ which is less than $\frac{1}{3}$rd.

$\sin\alpha = \frac{10.816}{21} = .515$ ✓

$\therefore \alpha = 31°$

Weight of roof reduced normal to slope

$= 18\cos 31° = 18 \times 0.85717 = 15.43$ lbs per sq. ft.

Wind pressure $= 60 \times 0.68 = 40.80$ ✓

$\therefore$ Total weight per sq. ft. $= 56.23$ ✓

Pl Rafter

$P = \frac{5}{6} W \operatorname{cosec} 31° = \frac{5}{6} W \times 1.946$

$W = 60 \times 10 \times 21 = 12,600$, plus weight of common rafters and purlins (see below). ✓

Common rafters $= 6 \times 21 \times \frac{2.5}{12} \times \frac{4.25}{12} \times 41 =$ ~~388 lbs.~~ 381 lb

Purlins $= 2 \times 10 \times \frac{5.25 \times 8.5}{12 \times 12} \times 41 = 255$ " ✓

Total $= 643$ lbs

$\therefore W = 13,243$ lbs (13236) say 13,250 ✓

$\therefore P = \frac{5}{6} \times 13250 \times 1.9416$ ✓

$\therefore \log P = .69897 + 4.122185 + 0.28780 - .77815$ ✓

$= 4.33080$ ✓ $\therefore P = 21,400$ ✓

$S = \frac{42800}{1210} = 35.4$ nearly. Make principal rafters $5'' \times 7\frac{1}{4}''$ ✓

… are to … feet apart. Timber Teak. Roof covering to be mangalore tiles as per sketch no 7 being the accompaniment to the circular no 3076 C dated 3rd July 1901. Rise $\frac{1}{3}$ Span (= 34°).

10

– Pressure per sft. of the roof –

	lb
Weight of mangalore tiles with flat tiles	15 ✓
Battens	3 ✓
	18
Wind Pressure normal to roof ~~covering~~ sloping $\frac{2}{3}$	42
Total	60 lb

$P = \frac{5}{6} W \times \operatorname{Cosec}\theta$ (= 34°).

$W = 60 \times 10 \times 21 = 12600$ lb ✓

$\operatorname{Cosec}\theta = 1.8$ ✓

$\therefore P = \frac{5}{6} \times \frac{12600}{1} \times \frac{1.8}{1} = 18900$ lb ✓

$S = \frac{2P}{c}$

Value of C for Teak = 1210

Formula for teak: $bd^2 = \frac{W-}{160}$

$W = 7 \times 10 \times 60 = 4200$ lb

$\therefore \frac{4200 \times 7}{160} = bd^2 = 184$ ✓

$2\frac{1}{2}'' \times 8''$ ✓

=

after adding breadths in the two cases, the scantling of the Pl. rafter $= \underline{\underline{6\frac{1}{2}'' \times 8''}}$. ✓

Tension on tie beam –

$P = \frac{5}{6} W \cot\theta$

$= W = 12600$ lb

$\cot\theta = 1{\cdot}5$

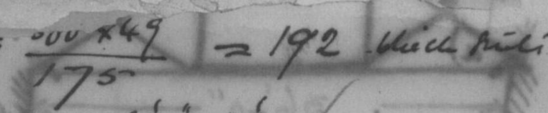
$P = \frac{5}{6} \times \frac{12600 \text{ lb}}{1} \times \frac{1{\cdot}5}{1} = 15750$ lb

$\frac{P}{2t} = S$

$= \text{sq. inches} = \frac{15750}{2 \times 11200}$

$= 0{\cdot}7$

$= \underline{\underline{2'' \times \frac{3}{4}''}}$ strap



$bd^2 = \frac{300 \times 49}{175} = 192$ which will a ✓

section $2\frac{1}{2}'' \times 4\frac{1}{2}$ ✓

Purlins. $W = 10 \times 7 \times 56{\cdot}23 = 3936$ lbs. ✓

$\frac{WL^2}{175} = \frac{3936 \times 100}{175} = 2250$ ✓

A section $6'' \times 7\frac{1}{4}''$ will be suitable.

Straps and bolt at the foot of the Pl. rafter

$\times \frac{5}{3} C$ the box

breadth of Pr.l rafter $= 6\frac{1}{2}''$

$C = 1210$

$\therefore \frac{15750}{6{\cdot}5 \times \frac{5}{3} \times 1210} = 1{\cdot}2$

$\therefore$ Dr. of bolt $= \underline{\underline{1\frac{1}{4}''}}$.

Abstract of Scantlings

King bolt truss

Principal rafter	4" × 5½"
Purlins	5¼" × 8½"
Common rafter	2½" × 4½"

Queen post truss

Principal rafter	5" × 7¼"
Purlins	6" × 7¼"
Common rafter	2½" × 4½"

Principal Rafters	6½" × 8" ✓
Tie Beam	6½" × 8" ✓
Struts	6½" × 6½" ✓
Queen Posts	8" × 3¼" (double) ✓
Straining Beam	6½" × 8" ✓
Straining Sill	3" × 6½" ✓
Straps at the heel of the Pl. rafters	2" × 3/8" ✓
Bolts — do — do	1¼" diam. ✓
Bolts elsewhere	1⅛" - do. ✓
Straps at feet of Queen Posts	2" × ¼" ✓

—CWMarlin

29/1/05.

Pl

II D

20-12-04

CWM

23/12/04.

Basel German Mission High School Calicut.—
Calculation sheet showing Scantlings of the proposed Queen Post Trusses ~~for~~ the ——

III D
20-12-04.

P. W. E 12
1119/05

RIC ARDSON & CRU MBAY.
TELEGRAPHIC ADDRESS: "IRONWORKS."
CODES USED: "PREMIER"; "A. 1" (1888 EDITION)
AND "A. B. C." (4TH & 5TH EDITIONS).
CORRESPONDING FIRM:
RICHARDSON & HEWETT, LONDON.

BOMBAY, 12th January 1905

P/ T - No. 30/25266

The Superintending Engineer,
Fourth Circle,
COIMBATORE.

P.S. Shew also
alligning the
foundations

Sir,

Re roofing for German Basel Mission School.

D.
To be treated as very urgent - 16/1

With reference to correspondence ending with your letter 12.M/801.H of the 3rd instant we now have pleasure in quoting you the sum of ---------------------------------- Rs. 980/-
f.o.b. Calicut for, (Rupees nine hundred and eighty)

7 Mild Steel Roof Trusses.
28 Holding down bolts.
14 " " plates.

for the Basel Mission School as per ferrotype design enclosed.

We do not quite understand what is intended by the roof being covered by Mangalore tiles over "flat tiles", and in order that the sections may be sufficiently strong to carry the weight of these flat tiles of which we have no particulars we have calculated the stresses on a total dead load of 25 lbs per square ft in addition to a horizontal wind pressure of 40 lbs per sq: ft. and resolving this to the pitch of the roof with a rise of 1/3 the normal effect becomes 30 lbs per square foot. We note you mention the normal wind pressure as 42 lbs but we think this must be

15

Suptdg: Engr: - 4th Circle - Coimbatore.

a clerical error for horizontal, as it would otherwise mean about 56 lbs horizontal which is much in excess of ordinary practice. Of course we can increase the sections for 42 lbs normal if you wish at an extra cost of Rs 130/-.

The material would be steel of British manufacture.

The trusses quoted for would have flat tie bars but if you would prefer round forged ties for the sake of appearance we could supply these at an extra cost of Rs 70/-

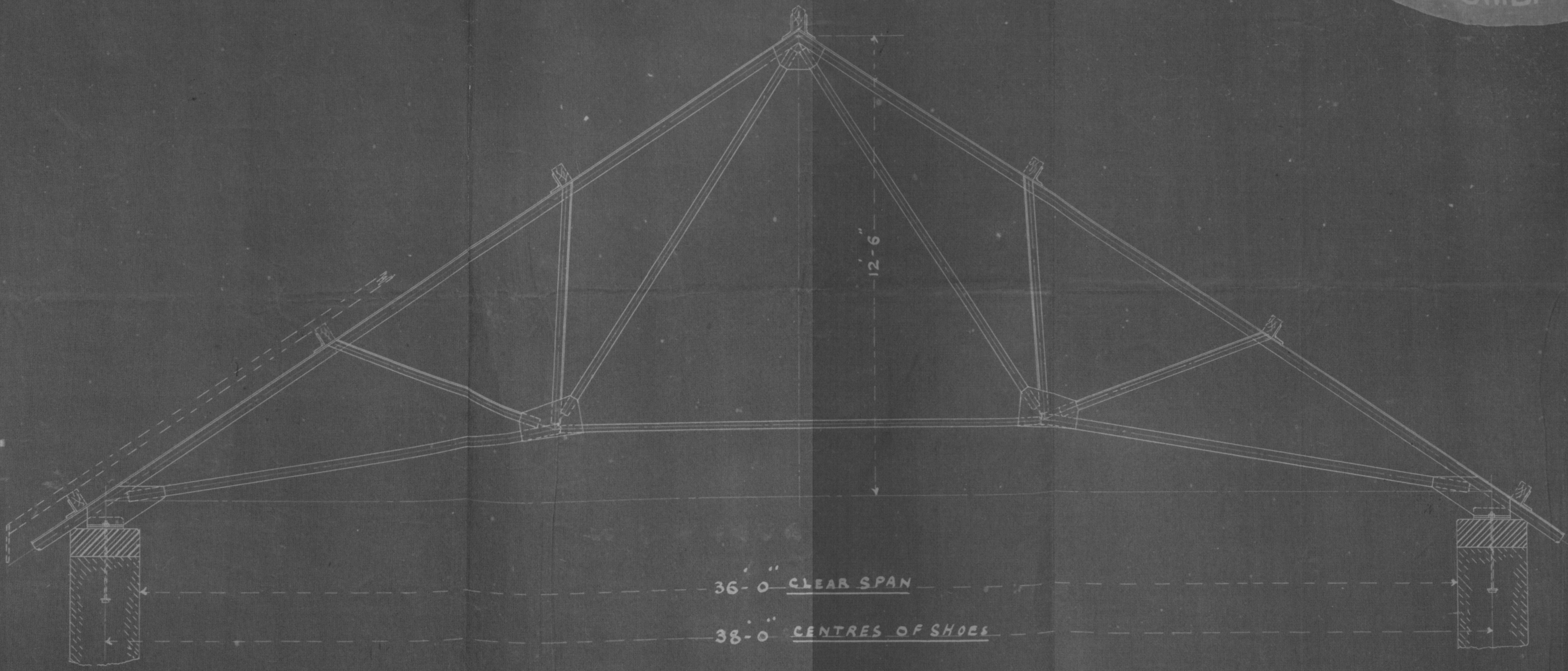
Awaiting your further instructions.

We are, Sir,
Your obedient servants,
Richardson & Cruddas

C.

TRACING No 26485 ~~26485~~ 26486

RICHARDSON & CRUDDAS
ENGINEERS
BOMBAY



RICHARDSON & CRUDDAS
ENGINEERS, BOMBAY.
Dated 12/1/05

16

H

S.E.W.
No 1/27 m
15-1-05

P. W. EE
1119/05

Educational (190) Department.

CURRENT No. 302

15

From

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

[Designation] Director of Public Instruction,

[Station] Madras

LOCAL & MUNICIPAL
20 FEB 1905

urgent

Ref. No. On our No. 1790 of 04

Dated 17th February 1905.

Enclosures

Received 190 .

Registered 20-2 1905.

SUBJECT.

Requesting that no action need be taken on this office letter Ref On our No. 1790 of 04 dated 7th October 1904 recommending a building grant on behalf of the German Mission High School, Calicut.

BACK PAPERS.

FURTHER PAPERS.

N.G. 20-2

To 18

The Secretary to Government,

Educational Department.

Sir,

The manager, German Mission High School Calicut wishes to withdraw his application for aid towards the cost of constructing a building which was submitted to Government with my letter Ref on our No. 1790 of 04 dated 7th October 1904. He writes as follows:-

no. 1844/04 to Page 1-3, ct file

"When I submitted the application I was under the impression that 1/3 of the estimated expenditure could be got. It now appears that if grant is sanctioned at all I can only expect 1/6 of the estimated amount from provincial funds and the remaining 1/6 I am to get from Municipal funds. I am afraid that I shall not be able to get any help from the Municipality. For, last year when I applied to them for grant for the new Primary School building they were not in a position either to sanction or even to promise any grant. We therefore made up our mind to erect the building entirely at our own cost and the building is now under construction. In case only 1/6th of the estimated amount can be got I submit that the amount sanctioned by the Home Committee will not be sufficient for the erection of the building as per plan and estimate submitted and the more so as the Superintending Engineer demands some further changes in the plan which will considerably add to the estimated expenditure. I beg to submit that therefore we have decided to bring down the estimate to the amount sanctioned by the Home Committee and to alter the plan accordingly."

I have the honour therefore to request that no further action need be taken on the application.

I have the honour to be,
Sir,
Your most obedient servant,

E. E. Edmundian
For Director of Public Instruction.

ti.
16.2.05

[E. / 2.]
180—20-7-04.

EDUCATIONAL DEPARTMENT.

C. No. 1814 From the D. P. I. No. 1790, dated 7-10- 1904.

SUBJECT.

Building grant for the Basel German Mission High School, Calicut.

16

Submitted that before the application for a grant of Rs. 13,880 towards the cost of a new building for the Basel German Mission High School, Calicut, is considered, the plans & estimates may be forwarded u.o. to the P. W. D. for professional scrutiny.

Page 3 of the ct file

2. In para. 7 of the Director's letter he says that out of the allotment for building grant in the current year's budget estimate payment of Rs. 2,332 has been authorized up to date. It is submitted that we have no means of verifying this amount. We have only account of amounts sanctioned before the buildings are constructed. After construction completion certificates are submitted to the Director who authorizes payment. The amounts so authorized are mentioned at the end of every application for sanction to new grants.

lc

19/10/4

K. 20.10.4

21.10.04.

P.W.D. u.o.

Est. no. 521 Dd 21/10/4

Desp 21/10/4

P. W. no Rno 774
22. x. 04

SECRETARY TO GOVERNMENT,
21 OCT '904
PUBLIC WORKS DEPARTMENT.

For scrutiny

25/10/04

MUNICIPAL
DEC 1904
SECRETARIAT.

D. W.

Please see Major Ellis' Comments on the plans and estimate. It will be very difficult to scrutinize the estimates in the absence of further details. The Current may be returned to the Supdg: Engr: asking him to call for further details through the Ex: Engr. who is on the spot and could get full particulars regarding the trusses &c.

1.12.04.

yes
1.12.04

Page 39 of current file Issued as No 5663 C d/6.12.04.

D.W.

Draft endt to the S. E. IV circle submitted. After issue the file may be sent to Educational for information.

P. K. S.
2.12.04.

Educational (u.o)

7.12.04
D.W.

Ed. Ho. No. 3304 / 8.12.04

Recd. 8.12.04

C No. 1119. Letter from the S.E. IV circle No 94 W dy 30-1-05.

DW

Submitted.

P.K.S.
4-2-05.

A. 12

T. for sending

6/2/05

[E. 2.]
1,500—3-12-04

EDUCATIONAL DEPARTMENT.

C. No. 302 From the Director of Public Instructn No. 1790, dated 17-2- 1905.

SUBJECT.
Building grant on behalf of the German Mission High School, Calicut.

19

LOCAL & MUNICIPAL
27 FEB 1905
SECRETARIAT.

The Director's letter no. 1790 of the 7th October 1904 was forwarded u.o. to the Public works Department on the 21st idem for the scrutiny of the plans and Estimates received ~~along~~ with it. As the Director now wishes that no action ~~need~~ should be taken on this letter in consequence of the manager of the School having withdrawn his application for aid, the P.W.D may be asked to stop scrutinising the plans and Estimates and to return the file to this Department. On receipt of the file the plans and Estimates may be sent back to the D.P.I for returning ~~them~~ to the manager of the School.

Ed. U.O. no. 521 D K
21-10-04

X This was recd back & returned to P.W.D on 8-12-04

Secy

21.2.05

22.2.05.

21/2/5

21/2/5

P.W.Dept.

Desp
22/2/5

Ed. U.O. 121. D
22-2-05

P.W.D

SECRETARY
22 FEB 1905
PUBLIC WORKS DEPARTMENT.

The file referred to which is herewith linked may be returned as requested.

P.K.S
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